

The IBM logo is centered on a white background. It consists of the letters "IBM" in a bold, blue, sans-serif font. The letters are composed of horizontal bars of varying lengths, creating a striped effect. The "I" has two bars, the "B" has four bars, and the "M" has five bars.

**IBM**

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# IBM WebSphere Cast Iron Version 7.5.1 documentation

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Contains information that leads you through the key tasks that are required to use IBM® WebSphere® Cast Iron® Version 7.5.1.

**Effective September 30, 2016, IBM Cast Iron is being rebranded as IBM App Connect Professional, as announced on September 13, 2016.**

## Getting started

### What's new

[What's New for This Release](#)

### Introductory topics

[IBM Cast Iron Studio](#)

[IBM Cast Iron Express®](#)

[IBM Cast Iron Live](#)

[IBM Cast Iron Web Management Console \(WMC\)](#)

[IBM Cast Iron Command Line Interface \(CLI\) Reference](#)

[IBM Cast Iron High Availability Pairs \(HA\) Reference](#)

[IBM Cast Iron Hypervisor Edition](#)

[IBM Cast Iron Notification Reference](#)

[IBM Cast Iron Management API Guide](#)

[IBM Cast Iron Connector Developer Kit \(CDK\) Developers Guide](#)

### Take a course

[IBM Education Assistant](#)

### Common tasks

#### Getting Started

[IBM Cast Iron Studio](#)

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[IBM Cast Iron Live](#)

#### More information

#### Support

[IBM WebSphere Cast Iron Support](#)

#### Discussion spaces

[IBM Cast Iron Community Forums](#)

#### Training and certification

[IBM Education Assistant](#)

#### Community links

[Global WebSphere community](#)

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## Documentation for older versions of WebSphere Cast Iron

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For older versions of WebSphere® Cast Iron products, the following archive files are available for you to download:

- [WebSphere\\_Cast\\_Iron\\_v6.0.0.zip](#)
- [WebSphere\\_Cast\\_Iron\\_v6.1.0.zip](#)
- [WebSphere\\_Cast\\_Iron\\_v6.3.0.zip](#)

The archive files contain the following content sub-directories:

- /plugins : Contains Eclipse plugins for use in IBM Knowledge Center - Customer installed edition or in Eclipse help
- /html : Contains normalised HTML + HTML TOC, for use as an HTML web site or local files

## What's New for This Release

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IBM® WebSphere® Cast Iron® version 7.5.1 delivers new and enhanced features.

IBM WebSphere Cast Iron Version 7.5.1 contains new features and updates for the following components:

- Studio
- Connectors
- Management Console

## Studio

---

This section describes new features and updates for Studio. For more information about connector new features and updates, see the Connectors section.

- Support for migrating WSDL of a WorkDay Connector Project
- Enhancements to supported activities of JIRA Connector, Insightly Connector, and MS SharePoint.
- SAP dependency JCo Jar files - Version Specific information
- Transformation activities for Open Data Protocol (OData)
- New connectors are available for download. For more information about the new connectors, see the Connectors section.

## Connectors

---

Along with updates to the existing connectors, Studio now supports the following:

- The new connectors added to the list are:
  - Apache Cassandra connector - Allows you to Insert Rows, Update Rows, Delete Rows, and Execute Query on Cassandra.
  - MailChimp connector - Supports Objects on CRUD operations, Batch operations, and Atomic operations.
  - Marketo connector - interacts using Restful Web Service API's, which allow users to access bi-directional data-level integration.
  - Sage CRM connector - Enables fetching data from the CRM and saving / updating data into the CRM for integration.
- Enhancements to supported activities of JIRA Connector, Insightly Connector, and MS SharePoint.

## Management Console

---

The following section describes new features and updates for the Web Management Console (WMC):

- Agent Monitoring tool for Secure Connectors
- Push WSDL from Cast Iron Project to API Management
- Push REST API (Swagger) from Cast Iron Project to API Management
- Support for Cast Iron Docker Container

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## Introduction

---

This section gives an introduction to the Integration Appliance, Studio, and the Web Management Console. There is also information about accessing Template Integration Projects, and information about installation and configuration.

- [Development Environment](#)  
The Integration Appliance combines data integration, transformation, routing, monitoring, and management capabilities in a single product. During run time, the Integration Appliance shares data and processing among databases, enterprise applications, legacy systems, and business applications.
- [Integration Appliance](#)  
The Integration Appliance is a rack-mountable appliance comprised of redundant and hot-swappable components
- [Web Management Console](#)  
The Web Management Console (WMC) is a browser-based application hosted by the Integration Appliance
- [Studio](#)  
Studio is a development tool for designing and building integration projects.
- [Installation and configuration](#)  
This topic discusses the installation and configuration steps you must complete before you build and run an integration

project.

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## [Feedback | Notices](#)

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# Development Environment

---

The Integration Appliance combines data integration, transformation, routing, monitoring, and management capabilities in a single product. During run time, the Integration Appliance shares data and processing among databases, enterprise applications, legacy systems, and business applications.

## Capabilities

---

- Broad support for the following industry-standard formats:
  - XML (W3C XML Schemas, DTDs, and XML documents)
  - Flat File, raw text, and raw binary data types
  - Supports many character encodings including UTF-8, US-ASCII, ISO- 8859-1, SHIFT\_JIS, EBDIC-XML-US, and EUC-JP
  - Commercial database systems, including Informix®, Sybase, DB2®, MySQL, Oracle and others through Sequelink.
  - System-specific protocols, such as SAP IDOC and IBM® MQ Series
  - Web Services
- Ability to transform data easily from one format to another format, for example: Flat File data to XML data.
- Guaranteed message delivery by means of a built-in message repository that holds all messages processed by the Integration Appliance.
- Support for a variety of application programming styles: synchronous and asynchronous (request/reply, store-andforward, publish/subscribe).
- Support for data transfer through configurable ports for HTTP, secure HTTP (HTTPS), FTP, secure FTP (SFTP).
- Support for client-side PKI authentication—the ability to connect to a secure server from the Integration Appliance.
- Ability to be managed remotely, from anywhere on the network, using a Web Management Console (WMC) and Command Line Interface (CLI).
- Support for email-based notifications using your network's SMTP-based email system and simple network management protocol (SNMP) traps.

## Components

---

The development environment contains the following hardware and software components:

### Studio

A graphical tool used to create integration projects on your Windows development environment. You publish integration projects from Studio to the Integration Appliance.

### Integration Appliance

An appliance that connects directly into a network and runs the integration projects that you create using Studio.

### Web Management Console (WMC)

A browser-based console that you use to manage the projects on the Integration Appliance.

### Command Line Interface (CLI)

A set of commands that you can use to manage the projects on the Integration Appliance.

- [Development process example](#)

The steps in this topic provide an example of the development process for an integration project:

**Parent topic:** [Introduction](#)

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## Development process example

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The steps in this topic provide an example of the development process for an integration project:

### Procedure

---

1. Develop your integration project using Studio on a standard Windows 7 machine.
2. In Studio, verify that the orchestration is valid.
3. Publish the integration project to the Integration Appliance.
4. Open a browser on a Windows 7 machine. In the browser, start the Web Management Console (WMC). From the WMC, issue a request to the Integration Appliance to deploy the orchestration job (instance) of the integration project.
5. An event triggers an orchestration job to be created and to start processing the activities that make up the orchestration. For example, a file being placed in a particular directory on a FTP server can trigger an orchestration job to be created and start processing.
6. From the WMC, verify that the orchestration job has completed and that no errors have occurred.
7. Modify the integration project in Studio. For example, your original integration project checks if a file appears in a particular directory on the FTP server and now you want to modify your integration project to move the file from the FTP source directory to an FTP output directory.
8. In Studio, verify that the project updates are valid by using the Verify tab to run each affected orchestration.
9. From the WMC, undeploy the original integration project.
10. Publish the modified integration project to the Integration Appliance.
11. From the WMC, deploy the modified integration project.
12. An event triggers an orchestration job to be created and to start processing the activities in the orchestration.
13. From the WMC, verify that the integration project has run.

**Parent topic:** [Development Environment](#)

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## Integration Appliance

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The Integration Appliance is a rack-mountable appliance comprised of redundant and hot-swappable components

Components that can be used in the Integration Appliance include network ports, hard-disk drives, RAM, cooling fans, and other critical components, that ensures fault-tolerant operations.

Use the Web Management Console (WMC) and the Command Line Interface (CLI) to manage the Integration Appliance.

**Parent topic:** [Introduction](#)

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# Web Management Console

---

The Web Management Console (WMC) is a browser-based application hosted by the Integration Appliance

The WMC can configure and monitor hardware, orchestration, and network status of an Integration Appliance, using a Web browser.

System Administrators can use the WMC for the following monitoring tasks:

- Obtaining Integration Appliance status information, such as memory-usage statics, disk-space statistics, CPU status, fan status, and power-supply status.
- Obtaining overall processing information at a glance, and then drill-down on specific orchestrations and obtain comprehensive information about specific messages, activities, errors, and other details.
- Viewing logs and error notifications.

In addition to the WMC, you can also use the Command Line Interface (CLI) to perform many administrative and monitoring tasks. For more information on the CLI, see the Command Line Interface reference.

**Parent topic:** [Introduction](#)

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## Studio

---

Studio is a development tool for designing and building integration projects.

In Studio, you build orchestrations that model business-process and data integration solutions. Studio provides a palette of activities that you drag onto the Studio Workspace and then configure. During run time, these activities perform actions, such as polling for a insert event in a database table. An orchestration is made up of one or more activities. An integration project can contain one or more orchestrations.

You can design simple point-to-point orchestrations, as well as more complex orchestrations that involve multiple endpoints, without writing any code.

After building an integration project, you publish it to an Integration Appliance.

## Studio Layout

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The main pane of Studio contains the following two sections:

### Workspace

Visible on the left side of the main Studio pane. As you create components, such as Endpoints and flat File Schemas, property panes for the component display in the Workspace. When you create a new orchestration, a blank orchestration are displayed in the Workspace. You drag activities from the Activities tab into the orchestration displayed in the Workspace. When you configure an activity of an orchestration, the configuration panes of activity are also displayed in this Workspace.

### Tabs

On the right side of the main Studio pane, the following tabs are available:

- Project
- Activities
- Variables
- Functions
- Verify

- [The Project tab](#)

The Project tab contains folders for each component

- [The Activities tab](#)  
An activity performs a particular operation in an orchestration, and are organized into categories on the activities tab
- [The Variables tab](#)  
The variables used in the current orchestration are listed in the Variables tab.
- [The Functions tab](#)  
The functions that you can add to a map between input and output parameters of an activity are listed in the Functions tab.
- [The Verify tab](#)  
By simulating the DataPower® Cast Iron® Operating System, the Verify tab allows you to test orchestrations within a project and resolve any issues before deploying the project to the Integration Appliance.
- [Understanding nodes and mappings](#)  
The integration projects that you build using Studio are based on industry standards, including BPEL4WS (business process execution language for Web Services), WSDL (web services description language), and other XML based standards.
- [Understanding parameters](#)  
Parameters are values that are passed to activities from an orchestration, or to the orchestration from an activity. The values from parameters are used to initialize the variables that comprise the orchestration.

**Parent topic:** [Introduction](#)

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## The Project tab

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The Project tab contains folders for each component

The following component folders can be accessed from the Project tab:

- Orchestrations
- Endpoints
- Flat File Schemas
- Stylesheets
- Transformations
- WSDLs
- XML Schemas

When you create new instances of a Project tab component, these instances display within the appropriate component folder.

To create new instances of any of the components in the Project tab, right-click on the folder (e.g., Endpoint) to display a menu and select the create option. The component is then created and displays under the appropriate folder, and given a generic name: Orchestration, Orchestration1, and so on. You should rename all components to something meaningful in the context of your integration project.

You can create these components in any order. To ensure that all components are available, create Flat File Schemas, and upload XML Schemas, WSDLs, and Stylesheets before you start defining the orchestration.

### Orchestrations

Orchestrations are the central component of any integration project. An orchestration contains a sequence of activities that perform a specific business process. For example, an orchestration could get a Flat File from a FTP Server, take the data from the Flat File, transform it, and then save the result into a database. An integration project must contain at least one orchestration.

### Endpoints

Endpoint components display in the Endpoint folder of the Project tab and specify the connection information required to connect to the various external systems or endpoints. The Integration Appliance supports connecting to Endpoints of many types including Email (SMTP, POP), FTP, SFTP, HTTP, HTTPS, JDE, JMS, MQ, NetSuite, PeopleSoft, Salesforce.com, SAP, Siebel, Web Services, and many commercial database systems.

Each type of endpoint has an associated configuration pane where you specify endpoint connection information. For example for a database endpoint, you must provide a database name, server name, user account, and password. You may, however,

want to specify a different set of configuration information when you move from a testing environment to the production environment. You can simplify the process of moving from one set of connection information to another (for example: from one database to another) by defining configuration properties (or name/ value pairs) in studio, to define the configuration information.

#### Flat File Schemas

A Flat File Schema defines the parsing rules, content, and structure of a Flat File. Flat Files are any non-XML text data, such as comma- and tab-delimited files and EDI or industry-specific textual formats, such as the Health Level 7 (HL7) format for the health care industry.

In addition to supporting variable-length Flat File formats that use delimiters to distinguish one record or field from another, studio also supports fixed-length records and fields such as the COBOL copy book format. In studio using the Flat File Schema Editor, you can create definitions for either type of text file and groups.

#### Stylesheets

An XSLT Stylesheet defines how to transform XML data from one format to another format. You can upload a XSLT Stylesheet into studio and add an Apply XSLT activity to your orchestration that uses the XSLT Stylesheet during run time.

#### Transformations

The Transformation folder contains standalone maps. A standalone map represents a set of one or more mappings between source and destination nodes.

For example, you can create a standalone map called myMap that contains a set of mappings between a source XML Schema called IncomingOrder and a destination XML Schema called ShippingOrder. A standalone map can be used to create any number of Map Variables activities in the same orchestration or in other orchestrations in the same project. You can create a Map Variables activity from a standalone map by dragging the standalone map from the Transformations folder to an empty node on the orchestration. A Map Variables activity based on the standalone map is created.

#### WSDLs

A WSDL (Web Services Description Language) is an XML document that describes a Web Service. It defines how to access a Web Service and the operations available for the Web Service.

#### XML Schemas

An XML Schema defines the content and structure of XML data. XML Schemas are typically stored in files that end with the .xsd extension. Once you upload an XML Schema into a project, you can use that XML Schema to create variables used in the activities of an orchestration.

**Parent topic:** [Studio](#)

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## The Activities tab

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An activity performs a particular operation in an orchestration, and are organized into categories on the activities tab

Activities are organized into the following general categories:

#### Transform activities

Transform activities transform data from one format to another. For example, the Read Flat File activity converts Flat File data to XML data. The transform activities are listed under the Transform folder of the Activities tab.

#### Logic activities

Logic activities affect the processing flow of an orchestration, such as control-flow logic, branching, or looping (for example: the For Each and the While Loop activities). The logic activities are listed under the Logic folder of the Activities tab.

#### Utilities activities

Utilities activities are utilities that start or act on the current orchestration job (or instance of the orchestration). The utilities activities are listed under the Utilities folder of the Activities tab.

## Connector activities

Connector activities perform operations on the various external systems associated with the orchestration. Connection-oriented activities are grouped into various folders named for the type of system, such as Database, Email, FTP, HTTP, JMS, Salesforce.com, Siebel, MQ, SAP, and Web Services.

To use any activities, drag the activity icon from the Activities tab to the orchestration in the workspace. To configure the specifics of an activity, click the icon in the orchestration. The configuration pane displays underneath the orchestration.

The configuration pane includes an activity-specific Checklist to guide you through the configuration of each activity. A key part of configuring most activities involves the mapping of input and output parameters.

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## The Variables tab

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The variables used in the current orchestration are listed in the Variables tab.

Variables are used in the context of a specific orchestration to bind data sources to an orchestration, and to pass (or operate on) data values created as the result of orchestration processing. An orchestration's variables are typically initialized by the parameters from the specific activities that make up the orchestration.

Variables can store primitive data, such as a string or integer value, or can represent an entire XML Schema or a fragment of an XML Schema. In Studio, you can automatically create variables for the orchestration using the Mapping Editor's Copy button. In the Variables tab of Studio, you can create a variable based on a fragment of an XML Schema, by dragging a fragment (or sub-node) of an XML Schema from the Schema of pane, into the Variables pane.

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## The Functions tab

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The functions that you can add to a map between input and output parameters of an activity are listed in the Functions tab.

You can add functions to the mappings between the input and output parameters of an activity to alter the data flowing through the orchestrations. Using the functions available on the Function tab, you can complete the following actions:

- calculations
- converting datatypes
- re-formatting data
- combining multiple data fields into a single field

For the list of functions available with Studio and for reference information about each function including the input and output parameters, see the Mapping Function Reference section of the Studio online help.

From the Functions tab, you drag the desired function onto the link between an input and output node of the Mapping editor. If the functionality you need is not available in one of the standard Studio functions, you can create your own custom functions. For more

information, see the Mapping Custom Functions section of the Studio online help.

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## The Verify tab

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By simulating the DataPower® Cast Iron® Operating System, the Verify tab allows you to test orchestrations within a project and resolve any issues before deploying the project to the Integration Appliance.

When initiating a test run, you can start a single orchestration or all the orchestrations in a project. Studio runs one orchestration job for each orchestration. You can start and stop orchestrations, and view orchestration monitoring logs from the Studio toolbar or from the Verify tab.

If the orchestration is invalid, a message dialog displays possible resolutions. In the workspace, Studio highlights each activity in the orchestration as the activity is processing the data. As Studio runs the orchestration, the Verify tab provides orchestration job details such as activity name, processing status, variable/parameter names, and variable/ parameter data in a tree view. If an error occurs, Studio highlights the node where the error occurred. Clicking the node takes you to the location of the error, where you can resolve any issues before running another instance of the orchestration.

When you click a node in the tree view, Studio displays in the Properties Pane the Checklist task that corresponds to the node. For example, when you click an activity node, Studio displays the Configure panel for the activity in the Properties Pane. When you click the Map Outputs node, Studio displays the Map Outputs panel in the Properties Pane. If you click a mapping variable or parameter, the data displays in the Variable/Parameter Message Data section of the Verify tab.

While Studio only runs one orchestration job for each orchestration, you can start the same orchestration multiple times. The Verify tab displays the results for each run of the same orchestration under a separate instance. For example, Instance #1 and Instance #2. You must allow an orchestration job to complete before you can run another instance of the same orchestration.

Note: Studio does not persist the results of the runtime test. When you close the orchestration tab, you lose runtime results for the orchestration.

## Additional Requirements

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Depending on the activities in the orchestration, Studio might require more input to run the orchestration job.

For example, an orchestration with a database activity requires that you generate database assets before running the orchestration in Studio, just as you must do in the WMC before running the orchestration on the Integration Appliance. If the orchestration contains an HTTP Receive Request activity, you must post a message to the specified URL. Studio provides an HTTP Post Utility to help you post a message. If the orchestration contains an FTP Poll activity, you must place a file in the specified location before Studio can run the orchestration. Studio prompts you for this information before it runs an orchestration.

Since the Verify tab allows you to simulate the runtime on the Integration Appliance, you can also specify Kerberos Protocol settings in Studio to test the settings before actually deploying to the Integration Appliance. Specifying these setting in Studio does not impact the runtime on the Integration Appliance. You must specify the Kerberos Protocol settings in the WMC to allow the Integration Appliance to authenticate the server that the Integration Appliance is communicating with. For more information about specifying Kerberos Protocol settings for the Integration Appliance, see the WMC Online Help.

## Navigating the Verify Tab Toolbar

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The following table describes the Verify tab toolbar:

Table 1.

I c o n	Description
▶	Starts the open orchestration. The orchestration must be valid before Studio can run an orchestration job.
■	Stops the running orchestration job immediately. Studio does not allow the orchestration job to complete before stopping.
▶	Starts all the valid orchestrations in the project that are not already running. If an orchestration is already running when you click this icon, Studio does not rerun the orchestration.
■	Stops all running orchestration jobs immediately. Studio does not allow the orchestration jobs to complete before stopping.
⌚	Displays orchestration monitoring data in a table or text format.
🕒	In the Workspace, highlights the activities in the execution path of the orchestration job, which allows you can follow the logic Studio used to complete the orchestration job. Different instances can have a different path depending on the inputs and orchestration logic. Click this icon to toggle between providing and not providing a highlighted path.
⤓	Assigns the results from the selected instance to the Map Inputs and Map Outputs, so that when you run a test from the Properties Pane, Studio populates the inputs and outputs with the results of the orchestration job.
✖	Deletes one or more selected instances from the orchestration details tree. To delete multiple instances hold the Shift key or Ctrl key, select the instances you want to delete, and click the icon.
-expand	Expands all the nodes under the selected node in the orchestration details tree.
-collapse	Collapses all the nodes under the selected node in the orchestration details tree.
+expand	Expands a single node under the selected node in the orchestration details tree.
-collapse	Collapses a single node under the selected node in the orchestration details tree.

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## Understanding nodes and mappings

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The integration projects that you build using Studio are based on industry standards, including BPEL4WS (business process execution language for Web Services), WSDL (web services description language), and other XML based standards.

You do not need to know the technical details of these standards to use the product. Nonetheless, as you work with Studio, you are exposed to the XML content of your inputs and outputs. Since orchestrations running on the Integration Appliance use, process, and deliver messages in an optimized XML format, all data and its definition is presented as a hierarchy of nodes, as in an XML document.

For example, columns in a database table are represented as nodes. As another example, Flat File Schemas are defined in Studio as a series of record, field, or group nodes in a tree structure that comprises a root node containing descendants (children, grandchildren, etc.).

There are two basic distinctions between node types in Studio:

- Structure nodes are nodes that convey information about structure only. An example of a structure node is a record definition (defined for a Flat File Schema). Structure nodes can contain other structure nodes, and nodes that contain data.
- Data nodes are nodes that can contain data.

In a typical complete node representation, the top node is often referred to as the root node—“root” in the sense that it contains all other nodes. Subsequent nodes are descendent nodes comprised of both structure nodes and data nodes.

A key part of designing an orchestration is specifying the mapping between nodes, that is, defining how nodes and the data they contain should be used and transformed in the course of orchestration processing.

Several XML-specific characteristics can be associated with nodes; these characteristics are represented as an additional icon adjacent to a node in a tree. These properties include:

- Recurring - denotes that a node can repeat (either a specified number of times or an unbounded number of times). Each time a recurring node repeats is an occurrence of the node.
- Nillable - a boolean property that denotes whether the data node to which this property is associated can have an attribute set to “nil” by the application. The nillable mechanism is defined by the XML Schema recommendation as a way to identify non-required data elements that are empty vs. those that convey a null data value.
- Optional - denotes whether an optional node exists or not.

Studio activities contain embedded maps that you must configure at design time, in the context of an orchestration, to define how actual parameters should map to variables, and how the variables should be processed in the orchestration.

The characteristics and node structure of the node tree in the right pane of the mapping editor determines whether a node from the left pane can be mapped to the right pane.

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## Understanding parameters

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Parameters are values that are passed to activities from an orchestration, or to the orchestration from an activity. The values from parameters are used to initialize the variables that comprise the orchestration.

Parameters can be either input parameters or output parameters. Activities can either contain just input parameters, just output parameters, or both.

You map variables of an orchestration to the input parameters of an activity in the Map Inputs task. During run time, the values of the variables are passed into the input parameters of the activity and are used by the activity. For example during run time, the FTP Put File activity creates a file using the name provided in the input parameter called filename and with the data provided in the input parameter called data. The values for the filename and data input parameters are populated by the data in variables in the orchestration.

Output parameters are return values from an activity. For example, the FTP Poll Directory activity passes three output parameters to an orchestration, as shown in the following table, each of which can be used to initialize a variable in the orchestration. Output parameters can be mapped from an activity to the orchestration.

Table 1.

Activity	Parameter	Description
FTP Poll Directory	filename	Name of the file obtained from the FTP server.
FTP Poll Directory	data	String containing the contents of the file.
FTP Poll Directory	timestamp	Timestamp on the file.

**Parent topic:** [Studio](#)

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# Installation and configuration

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This topic discusses the installation and configuration steps you must complete before you build and run an integration project.

## Integration Appliance

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The Integration Appliance is shipped with DataPower® Cast Iron® Operating System preinstalled. You must however, set up and configure your Integration Appliance before publishing and deploying your integration project to the Integration Appliance. Setup might include installing additional connector licenses. For more information, see the Installation Guide. Once the Integration Appliance is set up, configured, and available to the network, you can bring up the Web Management Console by entering the following URL into the address field of a browser: `https://hostname`

Where hostname is the name of the Integration Appliance. This name was assigned to the Integration Appliance during the installation process.

The Web Management Console opens to the Login screen in the browser window. The default login account and password is `admin/!n0r1t5@C`

Note: The Web Management Console uses the default port 443.

You can also access the Integration Appliance through the Command Line Interface.

## Studio

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To start creating integration projects to run on the Integration Appliance, you must install Studio on a Windows development workstation. Your Windows development workstation must meet some minimum hardware and software requirements. For more information, see the Installation Guide.

Once you have Studio installed, you can log into the Solutions Repository and access a repository of template integration projects (TIPs). Each TIP addresses a specific integration project scenario. For example, you can find a TIP for integrating data from a Salesforce.com endpoint to a database endpoint. When you select a TIP from the Solutions Repository and download the TIP to your workstation, a wizard opens and guides you through the configuration steps.

Note: The Solutions Repository contains TIPs that have been certified, as well as uncertified TIPs. Anyone who has access to the Solutions Repository can upload a TIP. For more information about creating, modifying, and searching for TIPs, see the Studio online help.

**Parent topic:** [Introduction](#)

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## Deployment concepts

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Use Studio to create integration projects, which you deploy to the Cloud using the Management Console or deploy to the Integration Appliance using the Web Management Console. A deployment of a project contains all runtime components necessary to run the processing defined in the orchestrations of the project.

With respect to deployment, there are two important concepts to keep in mind as you develop a project:

- Publishing and Deploying are two distinct steps. Publishing is the act of promoting a project from Studio to an integration environment (cloud or Integration Appliance) or to another intermediate location. A project does not run in the integration environment until you deploy it.
- Projects can have multiple configurations that support completely different environments (development, test, production). Using Studio to create configuration properties for projects offers greater flexibility at deployment time, because you can bind the properties to different environments.

The Integration Appliance provides the following two options for getting your projects from Studio to the Integration Appliance:

- Projects can be published directly to an Integration Appliance.

- Projects can be exported from Studio to a staging location and then uploaded to an Integration Appliance.

Whether you export from Studio and later upload to the Integration Appliance or publish directly to the Integration Appliance from Studio, the project does not run on the Integration Appliance until you deploy.

- [About configurations](#)

You publish a project to the Integration Appliance. The WMC then runs a configuration of the project. Once you publish a project to an Integration Appliance, the WMC creates a default project configuration. The default project configuration settings enable all orchestration in the project and allow you to quickly deploy a project.

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## About configurations

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You publish a project to the Integration Appliance. The WMC then runs a configuration of the project. Once you publish a project to an Integration Appliance, the WMC creates a default project configuration. The default project configuration settings enable all orchestration in the project and allow you to quickly deploy a project.

You can create numerous configurations of the same project on your Integration Appliance. Each configuration can connect to a different endpoint, if you have used configuration properties to specify the connection information for the endpoint. For example, one configuration could connect to a test database while another configuration connects a production database. Project configurations are created using the WMC, and by default, are not deployed when they are created.

## Publishing

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Publishing is the process of bundling up a specific integration project (the named project in Studio) and preparing the project for deployment on an Integration Appliance. When you publish a project, Studio creates a runnable version of the project and sends it to the Integration Appliance that you specify.

### Exporting

Exporting is a process very similar to publishing in that it compresses your project, but instead of pushing the result to the Integration Appliance, you give the file a name and save it for subsequent uploading to the Integration Appliance. For example, this allows for additional testing by a quality control team.

### Uploading

Uploading is the process of moving a project that has been exported from Studio to the Integration Appliance. A menu selection is available for this task in the WMC.

## Deploying

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Deploying is the process of instantiating all the runtime components necessary so that the Integration Appliance can perform the actual integration. Deploying presumes that a project has been published or uploaded to the Integration Appliance. Use the Web Management Console to deploy a project configuration.

## Understanding configuration properties

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Configuration Properties simplify the deployment process in moving from a development environment to a production environment. Rather than hard-code configuration details into the endpoint properties, you can create Configuration Properties, and then use these property names in the configuration pages of your endpoints.

This is because endpoints created in Studio are configured with specific address information (hostname, IP address) and other details (user account, password). These details may need to be changed at deployment for the specifics of the actual environment in which the project will run (assuming that the development, test, and production environments use different servers and systems).

At deployment , the values associated with the properties can be changed to the appropriate hostnames, IP addresses etc.

For more information about creating configuration properties, see the Studio online help.

**Parent topic:** [Deployment concepts](#)

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## Before developing your projects

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This section provides information you should know before developing your own integration project.

- [Planning an Integration Project](#)

When beginning the development process for an integration project you must define the integration scenario before using Studio to translate the project requirements into an orchestration.

- [Translating project requirements into Studio components](#)

After identifying high-level goals for your integration project, you can start analyzing more specific aspects of the integration project and identifying the Studio components that you can use to accomplish your goals.

- [Integration appliance configuration tips](#)

You might want to make the changes to your Integration Appliance configuration. This topic covers some changing passwords, creating users and groups and optimal performance configuration.

- [Studio best practices](#)

Some guidance for using Studio to its full potential.

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## Planning an Integration Project

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When beginning the development process for an integration project you must define the integration scenario before using Studio to translate the project requirements into an orchestration.

### Defining an integration scenario

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When defining an integration scenario, specify a clear goal. With this goal in mind, identify the high level project requirements:

- Endpoints - From what source system and to what target system are you moving the data?
- Formats - What is the format of the data from the source system? What data format does the target system accept?
- Transformation - If the source data and target data have different formats or structure, then what type of data transformation is needed? Are there any special processing rules?

For example, if your goal is to consolidate multiple purchase orders and place the consolidated purchase order into a supplier's database. High level project requirements might include the following details:

- Endpoints - The source system is an FTP server. The target system is an Oracle database.
- Formats - The source data is pulled from CVS flat files stored on the FTP server. The target database requires data in table format.
- Transformation - A flat file to table transformation is required. Also orders from locations that have sales tax should be processed differently than orders from locations without sales tax.

- Overall goal of the integration project. For example, combining a flat file purchase order with an XML purchase order, into a single large purchase order that is stored in the supplier's database.

For example, you want to consolidate multiple purchase orders, verify that they conform to a specific format, and then:

- A few Flat File sources need to be consolidated into a target XML file.
- Files from one FTP site need to be moved to another.

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## Translating project requirements into Studio components

---

After identifying high-level goals for your integration project, you can start analyzing more specific aspects of the integration project and identifying the Studio components that you can use to accomplish your goals.

You can start by analyzing the following characteristics of your integration project:

- From what source, or sources, do you want to obtain the data, and to what target do you want to transmit the data? These sources and targets (databases, FTP servers, HTTP servers, Email, etc) comprise the endpoints that are created as part of a project in Studio.
- In what format is the source data, and in what format is the required target data? Text-based files, including EDI formats, CSV, and other formats can be defined in Studio as a Flat File Schema that converts the data into the appropriate format for the Integration Appliance. In addition, a Flat File Schema can be used to produce data in a flat file format to be used outside of the Integration Appliance. XML-based data can be included in an integration project by uploading the appropriate XML Schemas (.xsd) or document type definitions (.dtd) to Studio.
- Does the data format or structure need to change from source to target, and if so, how does it need to change? Should some of the processing be based on the content itself?

Identifying these requirements provides the information needed to define (in Studio) one or more orchestrations that comprises a set of activities, including transformations on data. Transformations convert data from one format to another. For example converting Flat File data in a CSV (Comma Separated Values) format to XML data. Transformations can also suppress data, add data, alter datatypes, and perform calculations.

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## Integration appliance configuration tips

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You might want to make the changes to your Integration Appliance configuration. This topic covers some changing passwords, creating users and groups and optimal performance configuration.

### Change the default password

---

Using the Web Management Console:

1. In the upper right corner of the WMC, click your username.
2. Select Change Password.
3. Enter the old and new passwords, and confirm the new password.
4. Click Save.

Using the Command Line Interface:

1. Use an SSH connection to log in to the CLI, by starting an application like PuTTY.
2. Enter the appliance-host-name.
3. If needed, select SSH as the connection protocol or set other connection parameters offered by the application.
4. Initiate® the connection. The login prompt displays at first access.
5. Log in to the Integration Appliance using the default username and password [Username=admin, Password = ! n0r1t5@c].
6. Run the following command: auth set user admin <old\_password> <new\_password>

## Create users and groups, and define appropriate privileges.

---

As you would with any multi-user device, be sure to create users and groups and provide access to the Integration Appliance using the rule of 'least privilege,' that is, users should have no more privileges than necessary to do their jobs. For more information about setting privileges, see the Web Management Console online help.

## Configure the Integration Appliance for optimal performance

---

For better performance, once an integration project has been deployed to production and runs as expected, tune the following parameters:

- For each orchestration, change the logging level from the All option to the Error Values option.
- For each notification, set the Level exceeds field to the Critical option.

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## Studio best practices

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Some guidance for using Studio to its full potential.

Establish naming conventions for your organization

Provide unique, meaningful names (meaningful in the context of the business problem being solved) for all your Studio projects and related components—files, folders, projects, orchestrations, endpoints, and so on. Names should be:

- Unique - Studio is case sensitive: filename1, FILENAME1, and FileName1 are three different files. However, do not rely on capitalization to distinguish among Studio projects, it can lead to confusion.
- Descriptive - For example, a project that integrates suppliers and an inventory system might be called “SupplyChainIntegration.”

Back up projects frequently

In multi-user environments especially, be sure to back up projects frequently. You can quickly back up all Studio project components by simply creating a compressed file of the contents in a specific project's directory. Store the compressed file elsewhere, in a secure location. Ideally, in a version control system that will let you also track project changes.

Store projects in a central location

Place all project files in a central location, preferably using version control software, so that projects are easy to find and previous iterations are easy to recover (this is especially important if you have numerous developers working on the same project).

Design orchestrations for optimal performance

When possible, preprocess as much input data using the native facilities of the source systems before integrating. Transforming data outside the source system adds to the processing overhead. If performance becomes an issue, investigate how you can minimize the use of the Map Activity in an integration project's orchestration. For example, if you are integrating data from several different database systems, consider creating extract tables that preprocess the data, rather than trying to resolve all differences among disparate data types in the orchestration.

#### Use Configuration Properties for endpoint definitions

Rather than hard-coding details in your project endpoints, you can use properties for some of the details. You define these configuration properties in Studio and then use the Management Console to specify various runtime values. Before deploying the project, you must configure the properties for the actual endpoints in the production environment. For more details, see the online help.

#### Test activities and all definitions in Studio, as you design

As you use Studio to design all the elements of an orchestration, be sure to use test data wherever appropriate to ensure that mappings work as expected. Before publishing a project, test all mappings and flat-file schemas using Studio.

#### Set up development and test environments

Ideally, you should set up development and testing environments that mirror your production environment, including replicating data sources and targets in the test environment.

- Extract (or replicate) production data to your development and test environments.

Before deploying the project, you must configure the properties for the actual endpoints in the production environment by changing the Configuration Properties. See the Management Console online help for details.

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## Upgrading v6.x.0.x to v7.0.0.x

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The underlying OS versions used in Cast Iron v6.0.0.x and Cast Iron v7.0.0.x are different. A direct upgrade from v6.0.0.x to v7.0.0.x is not supported.

### Upgrading the physical appliance

---

1. If you are using a v6.0.0.x physical appliance, then upgrade this appliance to v6.4.0.x, and then from v6.4.0.x upgrade it to v7.0.0.x.
2. If you are using a v6.1.0.x physical appliance, then upgrade this appliance to v6.4.0.x and then from v6.4.0.x upgrade it to v7.0.0.x.
3. If the physical appliance is of v6.3.0.x or v6.4.0.x, then upgrade the appliance directly to v7.0.0.x.

### Upgrading the virtual appliance

---

1. If the virtual appliance is of v6.0.0.x, OR, if you have upgraded from v6.0.0.x to any of the following versions: v6.1.0.x, v6.3.0.x, or v6.4.0.x, and currently you are using either v6.1.0.x, or v6.3.0.x, or v6.4.0.x, do the following:
  - a. Save your Projects and User Settings from the appliance using Repository > Import/Export in Web Management Console (WMC).
  - b. Install a fresh instance of Cast Iron v7.0.0.x on the appliance and restore the Projects and User Settings.
  - c. Upload the vendor libraries (required by your projects) to WMC.

Note: Attempting an upgrade to Cast Iron v7.0.0.x on HVE running Cast Iron v6.0.0.x directly or indirectly will lead to an unusable system. This MUST NOT be attempted.

2. If you have a fresh installation of v6.1.0.x, then upgrade this appliance to v6.4.0.x and then from v6.4.0.x upgrade it to v7.0.0.x.
3. If you have a fresh installation of v6.3.0.x or v6.4.0.x, then you can directly upgrade to v7.0.0.x.

For further assistance, contact IBM Support.

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## Glossary

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A glossary of terms

**Activity**

A complete, functional unit of processing within an orchestration. Activities include flow-control (logic) activities; data activities to facilitate consumption and transmission of data; and activities that enable integration with database systems, enterprise systems, Web servers, e-mail servers, and other systems. An orchestration contains a series of activities.

**Assets**

Supplemental configuration files, scripts, or other materials associated with a specific activity. For example, the buffer table scripts created for a database insert activity are assets. Assets are controlled by the Web Management Console. Access privileges to assets can be given to users beyond the users of the WMC. For example, DBAs can be given privileges to the assets associated with a database activity so that they can create the required tables or triggers.

**Buffer table**

An auxiliary table used in conjunction with various Database Module Activities, such as the single-table insert, update, or delete database activities. When you configure one of the database DML (data manipulation language) activities, Studio generates a SQL script that can be used to create the appropriate trigger on the database table; the buffer table gets populated when the triggering event (INSERT, UPDATE, DELETE) occurs. The buffer table provides the means to capture database changes and initiate processing by the orchestration.

**Command-line interface**

A text-based alternative to the Web Management Console for configuring, managing, and querying an Integration Appliance.

**Control table**

A database table that facilitates using database endpoints in integrations. As it does with buffer tables, Studio generates scripts to create control tables that can be used to ensure that inserts, updates, and deletes to specific tables occur once and only once.

**Deploy**

Create an instance of a project configuration on an Integration Appliance.

**Document**

Any of the XML Schema files, DTDs, and other configuration files that comprise integration projects.

**Dynamic delimiters**

A delimiter that is obtained from within the fields of the message itself, such as an HL7 PID (patient ID) message header that denotes the beginning of a new record in a file containing a batch of electronic health records.

**Empty placeholder**

Appears in activities that have multiple branches as an initial placeholder for the activities in that branch. Dropping other activities on this icon removes it.

**Endpoint**

Is an external system, such as a database server, FTP server, e-mail system, or enterprise application that the Integration Appliance connects to either get data or return data during run time.

**Flat file**

A file containing non-XML data. Flat files are typically of two types: delimited, in which a comma, tab, white space, or other delimiter is used to separate variable-length fields and records; or positional, in which fields and records have a fixed width.

**For each**

A activity that iterates over a message structure where the data repeats.

**Flat File Schema**

Defines how to interpret a specific set of Flat Files. Studio creates flat-file schema (XML Schema) based on the configuration you define in the Message Definition pane. A flat-file schema is used in conjunction with Read Flat File activity to convert a source flat-file into XML.

**Function**

String, mathematical, and miscellaneous functions provided by Studio that you can use in defining processing in your orchestrations. In addition to the pre-built functions, Studio lets you build your own custom functions and add lookup tables.

**Integration project**

	The various inputs, outputs (endpoints), mapping and schema definitions (transformations, message formats), orchestrations, and configuration information that comprise an integration solution as designed in Studio and deployed to the Integration Appliance.
Job	A specific runtime instance of an orchestration.
Map	A component that lets you bind input parameters to variables, and variables to the orchestration. Many Studio activities contain embedded maps that you must configure at design time, in the context of an orchestration, to define how actual parameters should map to variables, and how the variables should be processed in the orchestration. In addition to the embedded activity maps, Studio has a stand-alone Map activity that can be used to bind any type of input and output to the orchestration.
Node	All data input to or output from the Integration Appliance is materialized in Studio as a series of nodes, as in a tree-like, hierarchical structure. In many cases, the nodes represent the structure and content of an XML document, but in many cases they don't (e.g., rows in a database table display as nodes). Nodes in Studio convey information about structure; the type of content that can be supported; or additional characteristics of the data.
Orchestration	The specific sequence of processing activities (such as data mapping, transformation, and control logic activities), endpoints, and data types defined and configured using Studio and deployed to run on the Integration Appliance.
Parameter	A value passed to an activity or to an orchestration. For example, filename and data are two of the parameters that can be passed from an FTP endpoint to an orchestration.
Pick	An activity that determines what starter activity to launch based on the action that has occurred. For example, a Pick activity could contain three branches, one that contains a Get Inserted Rows activity, one that contains a Get Deleted Rows activity, and the other contains a Get Updated Rows activity. If an UPDATE event occurs on the database, an instance of the orchestration is created and branch that contains the Get Updated Rows activity is invoked.
Project	A project defined and created using Cast Iron® Studio. Each project has a properties file (filename.sp3) and several additional metadata files and folders that comprise all integration elements - orchestrations, endpoints, XML schemas, Flat Files - and their specific configuration (variables, parameters).
Publish	Copy all project files from Studio to an Integration Appliance or to an intermediate staging area, such as a shared directory on a file server, for subsequent runtime configuration and deployment to a specific environment. The Publish process encompasses validating the project; creating a .par file of project configuration documents; and sending the package to the Integration Appliance specified.
Record identifier	A special field that delimits records in certain types of Flat Files, such as EDI (electronic data interchange) or HL7 (Health Level 7) files. For example, an HL7 PID (patient ID) number is a record identifier.
Repetition delimiters	A delimiter in a Flat File that is used when the data lacks a unique value, such as record ID, to distinguish one record from another.
Replace	Appears in Pick and other activity branches as an initial placeholder for the endpoint activity to receive a message for that branch. Dropping a Receive endpoint Activity on this icon removes it.
Stored procedure	A functional code unit that resides in a database and is ran explicitly by invoking its name. Stored procedures can be used to populate buffer tables when specific insert, update, or delete activities occur on a particular database table.
Studio	An integrated development environment (IDE) for creating, configuring, and publishing integration projects and the orchestrations they comprise. Studio projects run on the Cast Iron Integration Appliance.
Terminate	Stops orchestration processing.
Transformation	Converting data from one format to another. For example converting Flat File data in a CSV (Comma Separated Values) format to XML data. Transformations can also suppress data, add data, alter datatypes, and perform calculations.
Trigger	A type of database stored procedure that is called implicitly when a triggering event occurs. In the Database Module, a “triggering event” is an INSERT, UPDATE, or DELETE on a table.
Variable	Used to pass data values processed by an orchestration. Variables are used by maps to identify the source and target. Some Activities create variables automatically.
While loop	

Initiates and continually processes any children activities for as long as a specified condition is true.

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## IBM Cast Iron Studio

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IBM® Cast Iron® Studio is a development tool that is used to design, test, and publish integration projects to an IBM Cast Iron Integration Appliance. Studio provides numerous entities that you can drag into a workspace and configure as part of one, or more, business-process orchestrations that comprise an integration project.

Before you start, read [Studio basics](#) to familiarize yourself with the Studio environment and the terminology used, then refer to the topics in the help to find out how to complete specific tasks.

For detailed information about deploying your projects and working with them on the Integration Appliance, see the [Web Management console](#) help.

For a conceptual overview of Studio, including a step-by-step sample of how to create, test, and publish a project, see the [Introduction to getting started](#) section.

## IBM Cast Iron Studio introduction pane

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When you first launch Studio, the IBM Cast Iron Studio introduction pane is displayed. If Studio was closed while editing an existing project, Studio automatically loads the last edited project. To edit the loaded project, click an entity in the Project tab.

The following options are available from the IBM Cast Iron Studio introduction pane:

- [Create Project](#) - Launches the New Studio Project dialog box. Use the New Studio Project dialog box to create a new empty project with a default empty orchestration.
- [Open Project](#) - Launches the Open dialog box. Use the Open dialog box to browse for and open an existing project file. A Studio project file ends in the .sp3 extension.
- [Recent Project](#) - To view a project that was recently opened, click directly on project name under the Recent Projects folder.
- [View Help](#) - Launches the Studio help.
- [Find Solutions](#) - Launches the Template Integration Projects (TIPs) [Searching for Template Integration Projects \(TIPs\)](#) dialog box, which allows you to search for TIPs from the Cast Iron solutions repository.

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## Working with projects

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This page is the starting point for finding information about working with projects using IBM® Cast Iron® Studio.

- [Studio basics](#)

Studio provides an environment called a Workspace in which you can design and configure your integration projects. The Toolbox is the area next to the Workspace where multiple tabs contain components that you use to build an integration project; components such as endpoints, schemas, orchestrations, style sheets, transformation, WSDLs, activities, variables, and functions.

- [Creating a new project](#)

Each time you create a project, a project properties file is also created with the project name. These property files are used when you export or publish projects.

- [Protecting a project with a password](#)

In Studio, you can protect a project by assigning a password to it.

- [Opening a Project](#)

When you first launch Studio, the Project last worked on is opened by default. There are several ways to open a different project.

- [Saving a Project](#)

You can save a project using the Studio toolbar.

- [Renaming a Project](#)

You can rename a project using the Studio toolbar.

- [Publishing a Project](#)

When you publish a project, Studio connects to an Integration Appliance and directly updates the Integration Appliance with the documents that make up the project. Publish a project when the project is complete, has been validated, and has been tested in Studio. You cannot publish a project that has not been successfully validated.

- [Exporting a Project](#)

Export saves all the orchestrations, endpoints, schemas, and other items associated with the project, into a single file that ends in the .par extension.

- [Configuring Project Settings](#)

You can assign a unique version number to a project using the Project Settings dialog box.

- [Setting Preferences](#)

You can specify Project, Orchestration, Flat File, SSL/Kerberos, Session Login, and XML Schema preferences from the Preferences dialog box. You can change preferences at any time.

- [Creating Configuration Properties](#)

Create configuration properties or name/value pairs in a project. Use configuration properties to supply the default values for destination nodes of a map in the Mapping Editor. Â

- [Editing Configuration Properties](#)

You can edit configuration properties in Studio and in the Web Management Console (WMC).

- [Creating Global Configuration Properties](#)

When a global configuration property is created, you can import the global configuration property into a project as a project configuration property.

- [Searching for Template Integration Projects \(TIPs\)](#)

Template Integration Projects (TIPs) are stored in the Cast Iron solutions repository. Through the Configuration Wizard, TIPs guide you through the configuration steps for an integration scenario. TIPs can be downloaded to your local machine. The login window is pre-populated with the User Name and Password to make it easier for you to download the TIPs, without registration.

- [Installing Module Provider Libraries](#)

Both IBM Cast Iron Studio and the Integration Appliance require library files (.jar and .dll) associated with instances of certain connector types to be imported. For example, the following connectors require additional libraries: Database Connector, JDE, JMS, MQ, PeopleSoft, and SAP. These files must be present in Studio to enableÂ configuration of the endpoints and orchestrations that use any of those connectors.

- [Uploading Files into a Project](#)

You can upload only specific types of files into a project. For example, if you plan on mapping a string to XML data (valid to a particular XML Schema), you must first upload the XML Schema file (ends in the .xsd extension) into the project before mapping the nodes in the XML Schema.

- [Uploading Included XML Schemas](#)  
An XML Schema or WSDL document can include other XML Schemas in the main document, using Schema Inclusion, Schema Inclusion with Redefinition, or Importing a Namespace.
- [Specifying the Location of a File to Upload](#)  
Files can be uploaded into a project from a web location (HTTP or FTP Server) or from the local file system.
- [Valid External File Types for a Project](#)  
When building orchestrations, you can upload XML Schemas or other files into your project to complete configuration tasks. External files are used in connection activities and orchestrations that use a message that Studio cannot generate an XML schema for automatically. You must supply an XML schema or DTD if the message must be transformed or if you need to define a job key for the message.
- [About Valid Names](#)  
To be valid, the names for projects, Endpoints, orchestrations, stylesheets, Flat File Schemas, XML Schemas, WSDLs, and transformations must not exceed 42 characters and must not contain any of the reserved characters or words.
- [Undo and Redo Operations](#)  
Studio stores up to the last 100 actions you make and you can undo and redo those actions. You can undo and redo an action that you take on the fields in the UI, orchestration views, Mapping Editor, project tree, configuration properties, and variable panel activities.
- [Updating a Changed XML Schema](#)  
If you created a project that uses an XML Schema and the XML Schema changes, you can attempt to update the existing XML Schema with the new XML Schema.
- [Using the Project Explorer](#)  
The Project Explorer dialog box lists the set of entities of the current type, that have been already defined for the project.
- [Using the HTTP Post Utility](#)  
This utility provides a simple HTTP client interface that enables you to post messages/requests to HTTP servers, which is useful for orchestrations that have an **HTTP Receive Request** activity as the starter activity.

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## Studio basics

Studio provides an environment called a Workspace in which you can design and configure your integration projects. The Toolbox is the area next to the Workspace where multiple tabs contain components that you use to build an integration project; components such as endpoints, schemas, orchestrations, style sheets, transformation, WSDLs, activities, variables, and functions.

### Toolbar icons

Directly under the Studio toolbar menu options are the following Studio toolbar icons:

- New Project:  [Create Project](#)
- Open Project:  [Opening a Project](#)
- Save Project:  [Saving a Project](#)
- Close Project:  see [Saving a Project](#)
- Undo:  Allows you to undo previous actions.
- Redo:  Allows you to redo previously undone actions.
- Cut:  Removes an entity and saves a copy of the entity in the clipboard that can be used later by a paste action. For example, from an orchestration you can remove and store an activity to the clipboard. For more information, see [Working with activities in an orchestration](#)
- Copy:  Saves a copy of the selected entity into the clipboard that can be used later by a paste action.
- Paste:  Copy the stored entity from the clipboard.

- Delete:  Removes the entity. The activity is not saved in the clipboard.
- Validate Project:  Validates all the orchestrations in the project. If an orchestration is invalid the invalid orchestration icon  is displayed next to the orchestration in the Project tab. If the orchestration is invalid, click the orchestration to view the errors in the Validation Results window.
- Publish Project:  Opens the [Publishing a Project](#) dialog box. From the Publish Project dialog box, you can publish a project to an Integration Appliance
- Export Project:  Opens the Save dialog box. From the Save dialog box, you can save all the orchestrations, endpoints, schemas, and other objects associated with the project, into a single file that ends in the .par extension.
- Project Documentation Generation: Generates and saves project documentation as an HTML file.
- Preferences:  Opens the Preferences dialog box. You can specify Project, Orchestration, Flat File Properties, SSL/Kerberos, Session Login, and XML Schema preferences from the Preferences dialog box.
- Help:  Opens the Studio help. You can also connect to the [WebSphere Cast Iron Community](#) by selecting the option from the main Help menu.

## Orchestrations and the Workspace

---

When you select an orchestration a tab view of the selected entities is displayed in the upper half of the Workspace. For example, if you double-click an orchestration in the Project tab, a graphic view of the orchestration is displayed as a tab. An orchestration or workflow contains the logical flow of your integration. Drag-and-drop activities from the Activity tab onto the orchestration to visually define the logical flow of your integration. For a list of other entities configurable from the top half of the Workspace, see the Project tab.

The lower half of the Workspace is where you define or configure the activities you added to the orchestration. It is referred to by different names, depending on what you are doing at the time. If you are creating a map, this area is called the Mapping Editor. If you are configuring endpoints or configuring an activity, it is referred to as the Properties pane.

## Toolbox tabs

---

The Toolbox comprises five sideways-oriented tabs: Project, Activities, Variables, Functions, and Verify.

Note: You can make the Toolbox larger or smaller by moving the invisible slider between the Workspace and the Toolbox.

## Project tab

---

The Project tab contains folders that store the basic entities that make up any integration project. These folders are initially empty. The Project tab contains the following folders:

### Endpoints

Specifies the connection information required to connect to the various external systems. The Integration Appliance supports connecting to endpoints of many types including FTP, SFTP, HTTP, HTTPS, Email (SMTP, POP), SAP, MQ, Web Services, and many commercial database systems.

### Flat File Schemas

Defines the content and structure of a Flat File. Flat Files are any non-XML text data, such as comma and tab-delimited files and EDI or industry-specific textual formats, such as the Health Level 7 (HL7) format for the healthcare industry.

### Orchestrations

Contains a sequence of activities that performs a specific business process. Orchestrations are the central entity of any integration project.

### Stylesheets

Defines how to transform XML data from one format to another. You can upload an XSLT Stylesheet into Studio and add an Apply XSLT activity to your orchestration that starts the XSLT Stylesheet during run time.

### Transformations

Contains stand-alone maps that represents a set of one or more mappings between source and destination nodes.

### WSDLs

A WSDL is an XML document that describes a Web Service. It defines how to access a Web Service and the operations available for the Web Service.

### XML Schemas

Defines the content and structure of XML data. XML Schemas are typically stored in files that end with the .xsd extension.

When you upload an XML Schema into a project, you can use that XML Schema to create variables used by the activities of an orchestration.

In addition, the following icons are provided:

- New Orchestration:  Click to create an Orchestration.
- New Endpoint:  Click to create an Endpoint.
- New Flat File Schema:  Click to create a new Flat File Schema.
- New Standalone Map:  Click to create a Standalone map.
- Add Document:  Click to upload a file into the current project.
- Revalidate Project:  Click to validate the orchestrations in the current project.

To view the entities that make up the Project tab as a list view:

1. Select Edit > Preferences from the Studio toolbar menu. The Preferences dialog box displays.
2. Select the Show the entities of the Project tab as a list check box.

To view and configure an existing entity in the Project tab, open an entity choose from one of the following options:

- Double-click the entity in the Project tab
- Select the entity in the Project tab and press Return.

The properties of the entity show in the Properties pane. Clicking an orchestration in the Project tab, validates the orchestration. If the orchestration is invalid, the orchestration warning icon is displayed , and the Validation Results window opens next to the Project tab. Click the error message in the window to open the appropriate panel to fix the error.

To rename or delete an entity in the Project tab, right-click the entity and from the list select Rename or Delete.

To copy and paste an entity in the Project tab:

1. Select an entity in one of the folders in the Project tab.
2. To copy the entity, enter the key sequence:  $\text{CTRL}+\text{C}$ .
3. To paste the entity, enter the key sequence:  $\text{CTRL}+\text{V}$ . A copy of the entity displays in the Project tab.

To view the entities of the Project tab as a list, select the Show entities of the Project tab as a list check box in the Preferences pane of Studio. For more information, see [Setting Preferences](#).

When the Project tab opens, a Dependencies pane shows by default in the Project tab. Selecting an entity in the Project tab shows the entities that are directly dependent on this entity in the project, which entities in the project would be incomplete if this entity was removed.

For example, if you had FTP endpoint that was used by the **FTP Poll Directory** and **FTP Put File** activities of the BatchOrder orchestration, clicking the FTP endpoint in the Project tab, displays the BatchOrder orchestration in the Dependencies pane because the endpoint is used by the orchestration. If you deleted the FTP endpoint, the BatchOrder orchestration would be incomplete. If you select the BatchOrder orchestration, you would not see the FTP endpoint listed in the Dependencies pane because you can delete the BatchOrder orchestration without affecting the FTP endpoint.

By default, the Dependencies pane appears underneath the Project tab. You can hide the Dependencies pane, by clearing the Show dependant project nodes check box for the Project in the Preferences pane. To view the preferences for a project, select Edit > Preferences from the toolbar menu and then select Project in the left pane. The preferences for the project display.

## Activities tab

---

An activity performs a specific operation in an orchestration. Activities are organized into the following general categories on the Activities tab:

- Transform
- Logic
- Utilities
- Archives
- Cryptoservice
- Database
- Data Quality
- Domino
- Email
- Force.com Bulk API
- FTP
- HTTP
- JDE
- JMS

- MQ
- NetSuite
- PeopleSoft
- SAP
- Salesforce.com
- ServiceMax
- Siebel
- STS
- Web Services
- Workday

## Variables tab

---

Variables are tools for orchestrations. They are used to bind data sources to orchestrations and pass or operate on data values as they pass through the orchestration. The Variables tab provides an area where you can create and edit variables.

## Functions tab

---

Functions are tools used in the Mapping Editor. Use the tools to specify how to transform data as it passes through an orchestration. If the functions provided in the Functions tab do not meet your needs, you can create your own custom functions.

## Memory usage and garbage collection

---

If the Show memory usage in status bar option is selected in the Preference dialog box, a memory bar and trash can icon is displayed as shown in the following figure. This memory bar displays how much memory is currently used by Studio, compared to the total memory that is currently allocated to Studio (520 MBytes) from the Operating System, as shown in [Figure 1](#):



Figure 1. Memory usage

To request that Studio attempt garbage collection, reclaiming any unused memory inside of Studio, click the trash can icon located to the right of the memory bar. Clicking the garbage collection trash can icon might reduce the amount of memory Studio is currently using internally, potentially increasing the performance of Studio when working with a large project. Clicking the garbage collection trash can does not reduce the memory used by Studio from the operating system, the size of this memory remains constant to the 520 MBytes size initially allocated to Studio.

## Entity tabs

---

To manage the Entities tabs: in the upper half of the Workspace, the entities selected from Project tab are displayed as tabs (for example: Orchestrations and Endpoints). You can manage these tabs by right-clicking a tab and selecting the appropriate action from the menu:

- Close: Close the tab that you right-clicked on to open the menu.
- Close Other Tabs: Close all the open entity tabs except the entity tab that you right-clicked to open the menu.
- Close All Tabs: Closes all the entity tabs currently open.
- Close All But Current Tab: Close all the open entity tabs except the entity tab that is currently selected.

To navigate to hidden entity tabs, when many entities have been opened from the Project tab, the hidden tabs icon

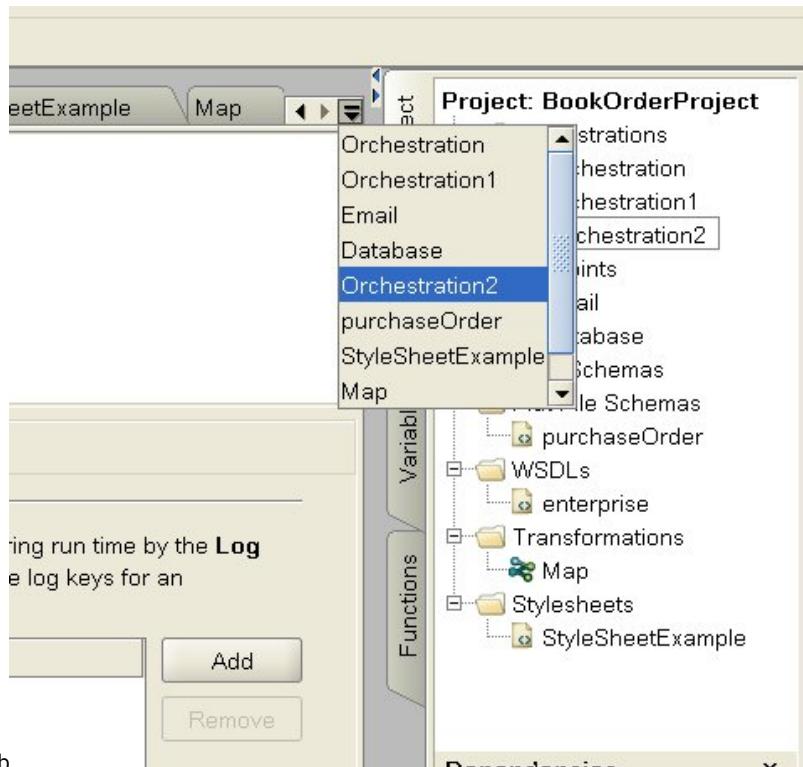


Figure 2. Hidden Tab

To access the hidden entity tabs, click the hidden tabs icon . A list of all the currently opened tabs is displayed. Select one of the tabs from the menu.

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## Creating a new project

Each time you create a project, a project properties file is also created with the project name. These property files are used when you export or publish projects.

### Procedure

1. Select File > New Project
2. Enter CTRL+N, or click the New Project toolbar icon The New Studio Project dialog box is displayed.
3. Enter a name in the Project Name field. The name of the project cannot be longer than 42 characters and cannot contain any reserved characters or words. For the list of reserved characters and words see [About Valid Names](#).
4. In the Project Directory field, click [...], to browse for the folder in which to save the project. The Open dialog box is displayed
5. Select a folder and click Open.
6. Click OK.

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## Protecting a project with a password

---

In Studio, you can protect a project by assigning a password to it.

### Before you begin

---

This password does not protect a project that has been exported from Studio or published to an Integration Appliance. This password is not used by the Integration Appliance.

### Procedure

---

1. Select Project > Permissions > Protect from the Studio toolbar menu. The Enter Project Password dialog box is displayed.
2. In the Enter Password field, enter a valid password. Passwords must be 4-15 characters in length and contain at least one letter and one number. Once a valid password is entered, the message displayed at the end of the dialog box changes from Enter password to Confirm password.
3. In the Confirm Password field, enter the same password. The message displayed at the end of the dialog box changes from Passwords do not match to Passwords match when the correct password is entered in the Confirm password field.
4. Click OK.

### Results

---

The project is now protected with a password.

### What to do next

---

Note: Studio does not store passwords. If you forget the password for the project and Studio does not currently have that project open, you must rebuild the project. If the project is still open, you can change the current password as described in the following topics.

- [Changing a password associated with a project](#)  
If a project is protected with a password, it can be changed from the Studio toolbar menu
- [Removing a password associated with a project](#)  
If a project is protected with a password, it can be removed from the Studio toolbar menu

**Parent topic:** [Working with projects](#)

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## Changing a password associated with a project

---

If a project is protected with a password, it can be changed from the Studio toolbar menu

### About this task

---

The option to change the password is only available if the project has already been protected with a password.

### Procedure

---

1. Select Project > Permissions > Change Password from the Studio toolbar menu. The Enter Project Password dialog box displays.
2. In the Old Password field, enter the existing password assigned to the project.
3. In the New Password field, enter a new valid password. Passwords must be 4-15 characters in length and contain at least one letter and one number. Once a valid password is entered, the error changes from Invalid password selected to Passwords do not match.
4. In the Confirm Password field, enter the same new password. Once the same password has been entered in the Confirm Password field, the message displayed in the dialog box changes from Passwords do not match to Passwords match.
5. Click OK.

## Results

---

The project password has been changed.

**Parent topic:** [Protecting a project with a password](#)

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## Removing a password associated with a project

---

If a project is protected with a password, it can be removed from the Studio toolbar menu

### About this task

---

The option to remove the password is only available if the project has already been protected with a password.

### Procedure

---

1. Select Project > Permissions > Unprotect from the Studio toolbar menu. The Enter Project Password dialog box displays.
2. In the Password field, enter the existing password assigned to the project.
3. Click OK.

## Results

---

The project is no longer protected by password.

**Parent topic:** [Protecting a project with a password](#)

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## Opening a Project

---

When you first launch Studio, the Project last worked on is opened by default. There are several ways to open a different project.

### About this task

---

The following steps explain how to open a project using the menu toolbar. You can have only one project open at a time.

## Procedure

---

1. Select File > Open Project , or select the Open Project  toolbar icon.
  2. Navigate to the location of the project you want to open.
  3. Select the project to open. Either:
    - o Select a project file that ends in the .sp3 extension and click Open.
    - o To view a project that was recently opened, select File > Reopen Projects > *OldProjectName*, where *OldProjectName* is the name of the recently opened project.
- If the project is secure, you must enter a valid password to open it.

## What to do next

---

You can also open a project using the Studio Introduction pane or by using the keyboard.

- Using the Studio Introduction pane, click Open Project to display the Open dialog box
- Using the keyboard, use CTRL+O to select a project file that ends in the .sp3 extension

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## Saving a Project

---

You can save a project using the Studio toolbar.

### About this task

---

To save a project to the file system using the default project name, choose one of the following options:

- SelectFile > Save Project from the Studio toolbar
- Press CTRL+S
- Click the Save Project toolbar icon 

### Procedure

---

1. Choose one from one of the following options:
  - o Select File > Save As from the Studio toolbar
  - o Press CTRL+AThe Save As dialog box displays.
2. In the Project Name field, enter the new name of the project.
3. Optional: By default, the project is saved into the directory location specified by the Default Create Path field of the Preferences dialog box. To specify a different directory location, click Browse.
4. Click OK.

### Results

---

The Saving Project progress dialog box displays as the current project is saved using the new name. The new project is saved into a directory on the local file system and the new project is opened and displays in the Project tab. The original project remains unchanged since the last time it was saved to the local file system

## What to do next

---

To close the current project, choose from one of the following options:

- SelectFile > Close Project from the Studio toolbar.
- Click the Close Project toolbar icon .

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## Renaming a Project

---

You can rename a project using the Studio toolbar.

### Procedure

1. Choose one from one of the following options:
  - Select File > Rename Project from the Studio toolbar
  - Press CTRL+RThe Rename Project dialog box displays.
2. In the Project Name field, enter the new name of the project.
3. Optional: By default, the renamed project is saved into the directory location specified by the Default Create Path field of the Preferences dialog box. To specify a different directory location, click Browse.
4. Click OK.

### Results

---

If the project was changed since the last save, the current project is saved before the project is renamed.

The Saving Project progress dialog box displays as the current project is renamed and saved into a directory on the local file system using the new name. The current project with the new name is opened and displays in the Project tab. The original project with the old name no longer exists on the local file system.

### What to do next

---

To close the current project, choose from one of the following options:

- SelectFile > Close Project from the Studio toolbar.
- Click the Close Project toolbar icon .

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## Publishing a Project

---

When you publish a project, Studio connects to an Integration Appliance and directly updates the Integration Appliance with the documents that make up the project. Publish a project when the project is complete, has been validated, and has been tested in Studio. You cannot publish a project that has not been successfully validated.

## About this task

---

You can publish multiple projects to the Integration Appliance.

Note: If you attempt to publish a project from Studio to the Integration Appliance and a project of the same name already exists on the Integration Appliance, whether the project gets published depends on the status of the project on the Integration Appliance:

- If any of the orchestrations in the project have been deployed on the Integration Appliance, the new project does not get updated on the Integration Appliance.
- If all the orchestrations in the project have been removed from the Integration Appliance, the new project from Studio overrides the existing project of the same name on the Integration Appliance.

As an alternative to publishing a project, you can choose to export a project. Exporting is typically used for publishing projects to production environments where administrators need to control the timing and impact of the deployment. For more information about exporting, see [Exporting a Project](#).

Note: To publish a project, Studio relies on the supported SSL and TLS protocols enabled in the SSL/Kerberos - Preferences window. You can select the TLSv2 or TLSv1.2 protocol. The default is TLSv2.

## Procedure

---

1. Select File > Publish Project or the Publish Project toolbar button.  The Publish Project dialog box displays.
2. In the Host name field, enter the host name or the IP address of the Integration Appliance you want to publish the project to. This is the host name for the management interface (mgmt).
3. Enter the User Name and Password for the Web Management Console (WMC) account for this Integration Appliance. The default account name is admin and the default password is !n0r1t5@C.
4. Optional: To specify that the project documents are to be sent over HTTPS to the Integration Appliance, select the Security check box.
5. Click OK. Studio connects to the Integration Appliance and updates the Integration Appliance with the documents that make up the project.
6. When the publish is confirmed, click OK.

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## Exporting a Project

---

Export saves all the orchestrations, endpoints, schemas, and other items associated with the project, into a single file that ends in the .par extension.

## About this task

---

Exporting is typically used for publishing projects to production environments where administrators need to control the timing and impact of the deployment. When a project is exported to a PAR file (in Studio), an administrator can use the Web Management Console (WMC) to upload the project to the Integration Appliance. This two-step process (exporting to a PAR file and uploading a project using the WMC) is equivalent to publishing a project directly from Studio to an Integration Appliance.

## Procedure

---

1. Select File > Export Project from the toolbar menu or select the Export Project toolbar button . The Save dialog box displays.
2. Navigate to the directory where you want to save the exported project.
3. Optional: Change the name of the exported file. Keep the .par extension.

4. Click Save.
  - o If successfully exported, a project file shows in the specified directory. The file name is the same as the current name of the project with a .par extension. For example, if you export a project named *MySimpleProject*, the project is saved in the *MySimpleProject.par* file. A dialog box displays indicating that the export process was successful.
  - o If there are problems with the project it is not exported; the Exporting Results dialog box displays with a list of problems that must be corrected before the project can be successfully exported.
5. Click OK.

## What to do next

---

For more information about exporting a project into the Integration Appliance using the WMC, see the WMC online help.

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## Configuring Project Settings

---

You can assign a unique version number to a project using the Project Settings dialog box.

### About this task

---

When you publish a project to the Integration Appliance, the version number associated with the project is visible in the Web Management Console (WMC). By changing the version number in the Version field, you can publish different versions of a project, even if the project itself hasn't changed. The different versions of the project are listed separately in the WMC and can be deployed individually.

### Procedure

---

1. Select Project > Project Settings from the menu toolbar. The Project Settings dialog box displays.
2. Enter a version number in the Version field.
3. Enter a description of the project in the Description field.
4. Enter any comments for the project in the Comments field
5. Click OK.

**Parent topic:** [Working with projects](#)

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## Setting Preferences

---

You can specify Project, Orchestration, Flat File, SSL/Kerberos, Session Login, and XML Schema preferences from the Preferences dialog box. You can change preferences at any time.

### Procedure

---

1. Select Edit > Preferences option from the toolbar. The Preferences dialog box opens.
2. In the left pane, select the type of preferences to change:
  - o Appearance
  - o Project
  - o Orchestration
  - o Flat File
  - o SSL/Kerberos
  - o Session Login
  - o XML Schema
  - o Current Project
3. Specify, select, or clear preferences in the dialog box.
4. Click OK.

## Results

---

The tables in the following topics describe the Appearance, Project, Orchestration, Flat File, SSL/Kerberos, Session Login, and XML Schema preferences available from the Preferences dialog box.

Using the Appearance preferences you can change the application display and font.

- [Project Preferences](#)  
Project preferences can be set using the Preferences dialog box.
- [Orchestration Preferences](#)  
Orchestration preferences can be set using the Preferences dialog box.
- [Other Preferences](#)  
Appearance, Flat File, SSL/Kerberos, Session Login, XML Schema, and Current® Project preferences can all be set using the Preferences dialog box.

**Parent topic:** [Working with projects](#)

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## Project Preferences

---

Project preferences can be set using the Preferences dialog box.

Table 1.

Button or Option Label	Description
Open editor automatically for new orchestrations	<ul style="list-style-type: none"> <li>• If this check box is selected, when you create an orchestration the orchestration is automatically displayed in the main Studio pane.</li> <li>• If this check box is cleared, when you create an orchestration the orchestration is not automatically displayed in the main Studio pane.</li> </ul>
Reopen the last project when studio starts	<ul style="list-style-type: none"> <li>• If this check box is selected, the last project opened in Studio is opened again when Studio is restarted.</li> <li>• If this check box is cleared, no project is opened when Studio is restarted.</li> </ul>

Button or Option Label	Description
Always overwrite existing projects	<ul style="list-style-type: none"> <li>If this check box is selected, when creating a project with the same name as an existing project already saved in the default directory, the new project is created, overriding the existing project and no warning dialog box is displayed.</li> <li>If this check box is cleared, when creating a project with the same name as an existing project already saved in the default directory, a warning dialog box is displayed asking if you want to override an existing project.</li> </ul>
Always ask to save project before closing	<ul style="list-style-type: none"> <li>If this check box is selected, when a project is closed, a dialog box asking if you want to save the project is displayed even if no changes have been made to the project.</li> <li>If this check box is cleared, when a project is closed and no changes have been made to the project, a dialog box is not displayed asking if you want to save the project.</li> </ul>
Show dependant project nodes	<ul style="list-style-type: none"> <li>If this check box is selected, the Dependencies pane is displayed underneath the Project tab. For more information see Dependencies Pane in the Project tab.</li> <li>If this check box is cleared, the Dependencies pane is not displayed underneath the Project tab.</li> </ul>
Show memory usage in status bar	<ul style="list-style-type: none"> <li>If this check box is selected, a memory bar displays underneath the 4 sideways-oriented tabs: Project, Activities, Variables, and Functions. For more information see <a href="#">Memory usage and garbage collection</a>.</li> <li>If this check box is cleared, a memory bar does not display underneath the four sideways-oriented tabs: Project, Activities, Variables, and Functions. For more information see <a href="#">Memory usage and garbage collection</a>.</li> </ul>
Show the entities of the Project tab as a list	<ul style="list-style-type: none"> <li>If this check box is selected, the entities in Project tab display as a list.</li> <li>If this check box is cleared, the entities in Project tab are grouped in folders.</li> </ul>
Clear Recent Projects	Click Clear Recent Projects to clear the cache of projects you have recently opened and listed when the File > Reopen Project toolbar menu option is selected.
Default Create Path	Click Browse... to select the default directory path where new projects are saved.

**Parent topic:** [Setting Preferences](#)

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## Orchestration Preferences

---

Orchestration preferences can be set using the Preferences dialog box.

Table 1.

Button or Option Label	Description
By Default Animate Orchestration Views	<p>This is a global option that determines the behavior for all orchestrations. By default, this option is selected and all actions that occur in the Studio Workspace are animated.</p> <p>Clear this option, to turn off workspace animation. When this option is clear and you perform action in the Workspace, such as adding an activity, the Workspace snaps into place.</p> <p>You can override this option at the individual orchestration level, using the Animate Graph orchestration view icon. However, if the global option is modified after you set the option for an individual orchestration, the global change overrides any individual orchestration setting you previously set.</p>

<b>Button or Option Label</b>	<b>Description</b>
Use Old Orchestration View	Select this option to view an orchestration as it would display in Studio 3.X. When you select this option, Studio 4.X orchestration view improvements are no longer available. For a complete list of 4.X orchestration view improvements, see the Studio Release Notes®.
Maximum Job Instances to be displayed	Determines the maximum number of jobs that can display in the Verify tab. For example, if you specify 2, the status of two jobs display: instance #1 and instance #2. If you run the orchestration again, the Verify tab displays: instance #2 and instance #3.
Show Activity ID	When you select this option, ID numbers display in the activities of an orchestration.
Enforce Strict Validation for Reply activities	By default, this option is selected. If you clear this option, Studio allows more than two Reply activities on the execution path. Reply activities include: Web Services <b>Send Reply</b> , Web Services <b>Send Reply with Fault</b> , and <b>HTTP Send Response</b> .
WS Provide-Generate WSDL compatible with 3.6.x version	Typically, when you upgrade projects that contain Web Services <b>Provide Service</b> activities, the Studio generates a WSDL with a new namespace. Select this option so that Studio keeps the 3.6X WSDLs instead.  If you select this option, Studio does not generate WSDLs with the most current namespaces.
CDK Log Enable/Disable	Select this option to view CDK Connector activity log (or flow) in the Verify pane.

**Parent topic:** [Setting Preferences](#)

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## Other Preferences

Appearance, Flat File, SSL/Kerberos, Session Login, XML Schema, and Current® Project preferences can all be set using the Preferences dialog box.

Table 1. Appearance Preferences

<b>Button or Option Label</b>	<b>Description</b>
<i>Application</i>	
Use native application frame	Indicates that if you select this check box, the look and feel of the operating system will be applied to the application window.
Use Color Scheme	Indicates the color schemes available to customize your application display. This option is available only if the Use native application frame options is not selected.
<i>Font</i>	
User Interface	Lists the font types available to change the font of the user interface. The Reset button allows you to set the default font.
Data Fields	Lists the font types available to change the font of the data fields. The Reset button allows you to set the default font.

Table 2. Flat File Preferences

<b>Button or Option Label</b>	<b>Description</b>

<b>Button or Option Label</b>	<b>Description</b>
Maximum Preview Size of Sample File (in KBytes)	<p>When testing a Flat File Schema, this field specifies how many KBytes of data is displayed in the source pane - the left side of the Test tab. This field is useful when you have a large source data file and you need to only view the top portion of the file to design the Flat File Schema.</p> <p>This field does not affect the size of the file that is transformed when you click the Test icon in the Test tab. The entire source data file is transformed if the Maximum Size of Sample File (in KBytes) field is set to a large enough size to load the entire file.</p>
Maximum Size of Sample File (in KBytes)	When testing a Flat File Schema, this field limits the size in KBytes of the test data that is loaded into Studio for testing a Flat File Schema. The maximum supported sample data size is 2000 KBytes. If you specify a value greater than 2000 KBytes in this field, Studio resets the value to 2000 KBytes.

Table 3. SSL/Kerberos Preferences

<b>Button or Option Label</b>	<b>Description</b>
Kerberos Realm	Specifies the Kerberos realm.
Kerberos Server Name	Specifies the Kerberos server name.
KeyStore Password	Provides the password to access the keystore.
KeyStore Path	Specifies the path to the local Javaâ„¢ keystore.
TrustStore Password	Provides the password to access the truststore.
TrustStore Path	Specifies the path to the local Java truststore.
SSL Protocol	Use the drop-down menu to specify the SSL Protocol. TLSv2 is the default and enables all SSL and TLS protocols (including TLSv1.2) for SSL negotiation. TLSv1.2 enables the SSL communication using the TLSv1.2 protocol only.

Table 4. Session Login Preferences

<b>Button or Check Box Label</b>	<b>Description</b>
Username	Studio uses this user name to log in to the Cast Iron® TIPs repository.
Password	Studio uses this password to log in to the Cast Iron TIPs repository.
URL	Specifies the URL to the Cast Iron Service Login. Note: Do not modify the default value.
Host Name	Specifies a proxy host if you choose to use one.
Port	The proxy server port. By default, 8080.

Table 5. XML Schema Preferences. The following preferences determine the number of child levels, which Studio allocates and displays, for each XML Schema (including WSDLs) in the currently opened project.

<b>Button or Check Box Label</b>	<b>Description</b>
Number of child node levels allocated in memory for the schema Â	<p>Specifies the number of child node levels that are allocated in memory for the XML Schema. The number of child nodes allocated in the internal tree that stores the metadata of the XML Schema in Studio.</p> <p>Note: Specifying a large number of child node levels can adversely affect the performance of Studio. The recommended value for this preference is 6.</p>
Number of recursive node levels	<p>Specifies the number of recursive node levels allowed and graphically displayed. Â</p> <p>Note: Specifying a large number of recursive node levels can adversely affect the performance of Studio. The recommended value for this preference is 3.</p>

Button or Check Box Label	Description
Number of child node levels that are initially expanded when a schema is displayed graphically	<p>Specifies the number of child node levels that are initially expanded when an XML Schema is displayed graphically. For example if this limit was set to 6 in the preferences and a variable was selected for the From Orchestration pane of the Map Inputs task contained 8 node levels (<i>input/po/purchase/widgetId/price/discount/special/december</i>), only the first 6 levels (<i>input/po/purchase/widgetId/price/discount</i>) would be displayed in the Map Inputs task. You can expand a child node manually, by clicking the + sign next to the unexpanded child node.</p> <p>Note: Specifying a large number of child node levels can adversely affect the performance of Studio. The recommended value for this preference is 4.</p>
Number of child node levels allocated in memory for the substituted types of schema	<p>Specifies the number of child node levels that are allocated in memory for the substituted types of XML Schema. The number of child nodes allocated in the internal tree that stores the metadata of the substituted types of XML Schema in Studio. The default value is 10. The minimum value is 4.</p> <p>Note: Lowering this value decreases the memory requirement for child node levels in Studio.</p>

Note: A word about memory consumption: Studio allocates memory for each variable or parameter displayed in the Variables or Mapper panes and generates metadata in a tree structure with each node containing information about a specific element/complexType. Because elements or complex types have references to themselves, the tree depth of those elements can exceed ten levels, resulting in OutOfMemory errors. To avoid this, use the XML Schema preference parameters to improve memory consumption. For example, you can use the Number of recursive node levels function to limit how many times a self-referring node is added to the tree structure. Additionally, you can use the Number of child node levels allocated in memory for the schema function to control tree depth and prevent Studio from exceeding a certain limit.

Table 6. Current Project Preferences. The following preference determines whether the password is encrypted or not for the current opened project.

Check Box Label	Description
Backwards compatibility with pre-4.5 projects is not required	<p>When checked, encrypts the password upon publishing. This is the default starting with the Cast Iron 4.5 release. Before the 4.5 release, passwords were symmetrically encoded. If you plan to have the current project send the password to pre-4.5 projects, clear the check box. This avoids errors when the password is consumed by pre-4.5 projects.</p>

**Parent topic:** [Setting Preferences](#)

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## Creating Configuration Properties

---

Create configuration properties or name/value pairs in a project. Use configuration properties to supply the default values for destination nodes of a map in the Mapping Editor. Â

### About this task

---

When you add configuration properties to the project, using the Project > Configuration Properties option of the Studio toolbar menu, you can choose from these properties to supply the values for some of the fields in endpoints and default values for destination nodes in maps.

For example, if you created a configuration property named *myDatabaseName* of String type in Studio. While configuring your database endpoint, click the Database Name field and the  icon displays on the right side of field because at least one configuration property of String type was previously created. Click the  icon and select the *myDatabaseName* configuration property from the menu. The Database Name for the endpoint is supplied by the *myDatabaseName* configuration property during both design time (in Studio) and run time (on the Integration Appliance). A configuration property can be of type String or Password.

A destination node of a map is located in the right pane of the Mapping Editor. For more information, see [Assigning a Default Value for a Destination Node](#).

You can create configuration properties in the Configuration Properties dialog box or use the quick create method.

**To create configuration properties using the Configuration Properties dialog box:**

## Procedure

---

1. Open a Project.
2. Select Project > Configuration Properties from the toolbar menu. The Configuration Properties dialog box displays.
3. In the Add Name field, enter the name of the property you want to create.
4. From the Type list, select either String or Password.
5. Click Create. The new property name and type display in the properties list.
6. Click in the Value column for the newly created property.
7. Enter a value for the property; if it is of type password, the value is masked.
8. Press Enter or click out of the Value table cell to stop editing.
9. Continue adding additional properties as required. When finished, click OK.

## Example

---

Instead of creating configuration properties in the Configuration Properties dialog box, you can use the quick create option to define configuration properties directly from a text field in Studio. Fields that are enabled for the quick create option display a small green globe in the lower-right corner.

You can change the values of the configuration properties using the Web Management Console (WMC), like the configuration properties created in the Configuration Properties dialog box, after publishing a project.

Updating the value of the configuration property in the WMC does not affect the original value of the configuration property, that you defined in Studio.

**To create configuration properties using the quick create option:**

1. In an Enabled field, click the green globe. The Create Configuration Property window is displayed.
2. In the text field, enter a name for this property.
3. Click Create to save the entry as a reusable property.

The property displays in the current text field, the  icon is replaced by the green globe, and the property is saved in the Configuration Properties dialog box.

**Parent topic:** [Working with projects](#)

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## Editing Configuration Properties

---

You can edit configuration properties in Studio and in the Web Management Console (WMC).

### About this task

---

#### Editing Configuration Properties in Studio

You can edit specific information for an existing property by opening the Configuration Properties dialog box and double-clicking the entry. This does not include changing the type. If you make a change and click OK, all of the applications of that property are updated automatically. You cannot delete properties that are in use in an orchestration. You can delete only unused properties or properties that you have removed from active orchestrations.

#### Editing Configuration Properties in the WMC

When the project is published to the Integration Appliance, you can change the values of the configuration properties using the WMC. For example, you can create configuration properties in Studio that stores the following database connection information for a database endpoint: hostname, IP address, username, and password. You can then publish the project to the Integration Appliance, deploy the project, and test against a development database. When testing is complete, you might want to connect to a different database; for example, your production database. Using the WMC, you can update the values of the configuration properties in the project on the Integration Appliance to point to the production database.

## Results

---

Changes you make to configuration properties in a project configuration using the WMC are independent of values you specified for the configuration property in Studio. When you create project configuration properties in Studio and publish the project to the WMC, the WMC displays a Default project configuration. In this project configuration, and any project configuration you generate from the published project, you can use the WMC to modify the configuration property values you specified in Studio before publishing the project.

If you undeploy the project, update the configuration property values using Studio, and publish the project to the WMC again. The existing project configurations do not reflect the changes. To see the changes you just made to the configuration properties (using Studio), you must use the WMC to create a project configuration. This new project configuration displays the configuration property values you specified for the project in Studio.

## What to do next

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For more information, see "Enhancing the Simple Project" in the Getting Started Guide.

**Parent topic:** [Working with projects](#)

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## Creating Global Configuration Properties

---

When a global configuration property is created, you can import the global configuration property into a project as a project configuration property.

### About this task

---

You can use global properties to supply the values for fields in endpoints or for default values for destination nodes in maps. Create global configuration properties in Studio using the Edit > Manage Global Configuration Properties option of the Studio toolbar menu. For example, create a global configuration property named dbPassWord of the type Password in Studio, then create a configuration property in your project by importing dbPassWord.

A global configuration property can be of type String or Password.

### Procedure

---

1. In Studio, click Edit > Manage Global Configuration Properties.
2. Under the Global Property Lists pane, click New. The New Global Properties dialog displays.
3. Enter a name for the new global configuration property list and click OK. You can create one or more global configuration properties for each list.
4. Enter a name for the global configuration property that you want to create.
5. Select either String or Password from the Type list. If you select Password, the value is masked.
6. Click Create.
7. In the Value field, enter the value you want for the property.
8. Click OK. If you want to add more properties to the list, repeat steps 4 through 8.

## What to do next

---

Import project properties into a global properties list by clicking Import, select the project property you want to make global, and click Add.

To delete a global property from a global property list, select the property and click Delete.

**Parent topic:** [Working with projects](#)

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## Searching for Template Integration Projects (TIPs)

---

Template Integration Projects (TIPs) are stored in the Cast Iron® solutions repository. Through the Configuration Wizard, TIPs guide you through the configuration steps for an integration scenario. TIPs can be downloaded to your local machine. The login window is pre-populated with the User Name and Password to make it easier for you to download the TIPs, without registration.

### Procedure

---

1. From the Solutions menu, select Search For TIPs. The Login window is displayed with the pre-populated User Name and Password. These credentials have the access privilege only to download TIPs.  
Note: You can also log on by clicking the Login link present on the right-hand side, near the memory bar.
2. If you already have the credentials to log on, specify the user name and password. You can specify default login settings for the central repository in the Preferences dialog.
3. Click OK. The Search window is displayed and a confirmation message displays at the end of the main Studio window.
4. In the Search window, choose Keywords, Filter, or My TIPs as the method by which you want to search for TIPs.
  - o If you select the Keywords search option, the Keywords field is displayed.
    - a. Enter a search keyword.
    - b. Click Go. The results are displayed in the Results table and a "Searching ... completed" message is displayed at the end of the Search window. For example, if you enter the keyword USECASES, all TIPs under the USECASES category in the Cast Iron solutions repository are returned.
  - o If you select Filter search option, the filter options: Source Endpoint, Target Endpoint, Integration Patterns, and Searchable Keywords are displayed.
    - a. You must specify a value for at least one filter option. The options lists provide valid values.
    - b. Click Query. The results are displayed in the Results table and a "Searching ... completed" message is displayed at the end of the Search window.
  - o If you select My TIPs, all TIPs that you have created are displayed in the Results table.
5. In the Results table, select a TIP. The details for the project are displayed in the details section.
6. Optional: You can rate the TIP that you have selected.
  - a. Click the Edit Review link. The Publish Review window is displayed.
  - b. Move the slider until the appropriate number of stars are highlighted. Rate the TIP on a scale between 1-5, 5 being the highest rating.
  - c. In the My Title field, add a brief description for your review.
  - d. In the My Summary field, add more details about your review of the project.
  - e. Click OK. Studio submits the review to the Cast Iron solutions repository.
7. In the Search window, click Download. The Select directory where to save the TIP window is displayed.
8. Specify the download directory and click Open. The project is saved to the directory you specified and Studio opens the Configuration Wizard for the project.

**Parent topic:** [Working with projects](#)

**Parent topic:** [Template Integration Process \(TIPs\)](#)

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## Installing Module Provider Libraries

---

Both IBM® Cast Iron® Studio and the Integration Appliance require library files (.jar and .dll) associated with instances of certain connector types to be imported. For example, the following connectors require additional libraries: Database Connector, JDE, JMS, MQ, PeopleSoft, and SAP. These files must be present in Studio to enable configuration of the endpoints and orchestrations that use any of those connectors.

### About this task

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For information about installing the required library files on the Integration Appliance using Web Management Console, see the WMC Online Help.

You need access to the connector-specific library files, either on your Studio workstation or through the network.

### Procedure

---

1. With Studio open, select Tools > Install Module Providers. The Add Provider(s) dialog box displays.
2. Click the plus button under the relevant provider name. A text entry field and a browse button display to the right.
3. Click Browse, and use the browse dialog box to locate and select the files. Press the CTRL or SHIFT key to select more than one file.
4. Click Open to import the file contents. The library files display in the Add Provider(s) dialog box.
5. Click OK. When a library is installed or removed you are prompted to shut down Cast Iron Studio to apply the changes.
6. To apply the changes, click Yes then manually restart Cast Iron Studio. The library files are installed and you can proceed with your endpoint configurations. To return to the Add Provider(s) dialog box without applying the changes, click No.

**Parent topic:** [Working with projects](#)

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## Uploading Files into a Project

---

You can upload only specific types of files into a project. For example, if you plan on mapping a string to XML data (valid to a particular XML Schema), you must first upload the XML Schema file (ends in the .xsd extension) into the project before mapping the nodes in the XML Schema.

### About this task

---

See [Valid External File Types for a Project](#) for a complete list of valid external file types.

There are three ways to upload a file from the file system into a project:

- Upload files into a project by dragging a file into the Project tab
- Upload files into a project by right-clicking the appropriate folder in the Project tab
- Upload files into a project by clicking Add Document in the Project tab

The following procedure describes how to upload files into a project by dragging a file into the Project tab.

### Procedure

---

1. Select a file from a Windows folder in the local file system and drag into the Project tab.

- o If file is a supported file type and ends in the correct extension, a node displays under the appropriate folder in the Project tab with a default name. For example, if you dragged an XML Schema file called PurchaseOrder.xsd from the file system to the Project tab, a new node called PurchaseOrder shows in the XML Schemas folder of the Project tab. For a list of supported file types see [Valid External File Types for a Project](#).
- o If the uploaded file is an XML Schema or WSDL that includes other XML Schemas, the Uploading Included XML Schemas dialog box automatically displays. For more information, see [Uploading Included XML Schemas](#).

2. Optional: Change the default name.

3. Press Return.

- [Uploading Files into a Project using the Mouse](#)

There are three ways to upload a file from the file system into a project, this procedure describes how to upload files into a project by right-clicking the appropriate folder in the Project tab.

- [Uploading Files into a Project using the Add Document Button](#)

There are three ways to upload a file from the file system into a project, this procedure describes how to upload files into a project by clicking the Add Document button in the Project tab.

**Parent topic:** [Working with projects](#)

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## Uploading Files into a Project using the Mouse

There are three ways to upload a file from the file system into a project, this procedure describes how to upload files into a project by right-clicking the appropriate folder in the Project tab.

### Procedure

1. In the Project tab, right-click the appropriate folder for the type of file you are uploading, and select Add Document from the list. Â For example, if you are uploading an XML Schema file, select the XML Schemas folder in the Project tab. The Add Document dialog box displays.
2. In the Location field, [specify the location of the file from an external web location or from the file system](#).
3. Optional: In the Name field, enter the name for the entity that you want to display in Studio. The name you enter must not exceed 42 characters, and must not contain any reserved characters. For a list of reserved characters see [About Valid Names](#).
4. Click OK.

### Results

If the uploaded file is an XML Schema or WSDL that includes other XML Schemas, the Uploading Included XML Schemas dialog box automatically displays. For more information, see [Uploading Included XML Schemas](#).

The file is uploaded into the project.

**Parent topic:** [Uploading Files into a Project](#)

[Feedback](#) | [Notices](#)

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## Uploading Files into a Project using the Add Document Button

There are three ways to upload a file from the file system into a project, this procedure describes how to upload files into a project by clicking the Add Document button in the Project tab.

## Procedure

---

1. In the Project tab, click Add Document . The Add Document dialog box displays.
2. In the Location field, [specify the location of the file from an external web location or from the file system](#).
3. Optional: In the Name field, enter the name for the entity that you want to display in Studio. The name you enter must not exceed 42 characters, and must not contain any reserved characters. For a list of reserved characters see [About Valid Names](#).
4. Click OK.

## Results

---

If the uploaded file is an XML Schema or WSDL that includes other XML Schemas, the Uploading Included XML Schemas dialog box automatically displays. For more information, see [Uploading Included XML Schemas](#).

The file is uploaded into the project.

**Parent topic:** [Uploading Files into a Project](#)

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## Uploading Included XML Schemas

---

An XML Schema or WSDL document can include other XML Schemas in the main document, using Schema Inclusion, Schema Inclusion with Redefinition, or Importing a Namespace.

### About this task

---

#### Schema Inclusion

You can include other XML Schema fragments into the main XML Schema or WSDL using the `include` element as shown by the following example: `<xsd:include schemaLocation="myTypes.xsd"/>`

#### Schema Inclusion with Redefinition

The XML Schema specification supports redefining definitions included by other XML Schema fragments in the current XML Schema or WSDL. For example, the `myTypes.xsd` XML Schema fragment defines a complex type called `PurchaseOrderType`.

Another XML Schema called `PurchaseOrder.xsd` includes the `myTypes.xsd` XML Schema fragment using the `redefine` element and redefines the complex type called `PurchaseOrderType`.

You can include other XML Schema fragments into the main XML Schema or WSDL using the `redefine` element as shown in the following example: `<xsd:redefine schemaLocation="myTypes.xsd"/>`

#### Importing a Namespace

You can include a namespace into the current document using the `import` element as shown in the following example:

`<xsi:import namespace="http://acme.com/ns/example" schemaLocation="mySchema.xsd" />`

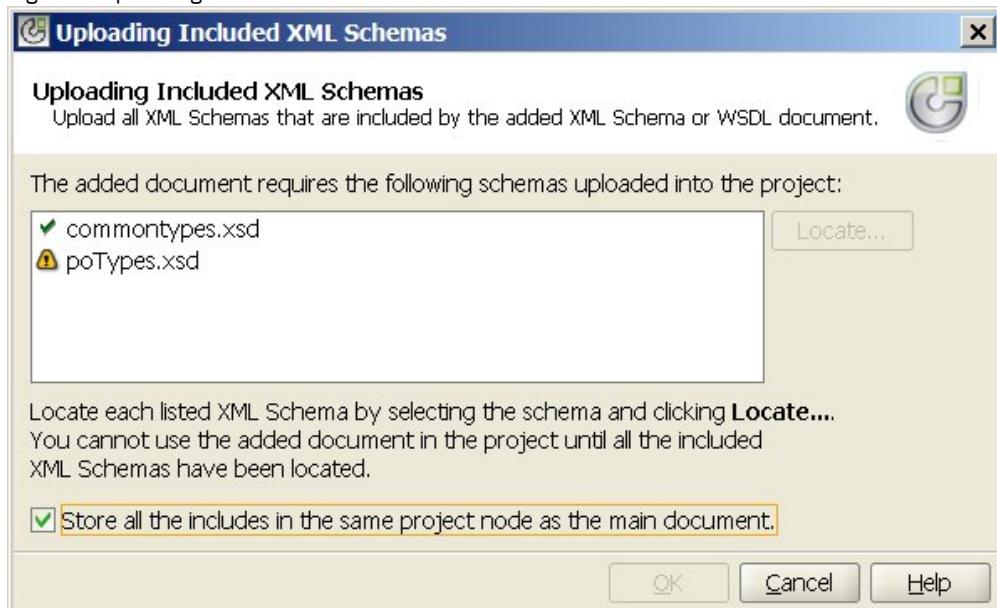
When you add or upload the main XML Schema or WSDL to the project using the Add Document dialog box, you are prompted to locate any included XML Schema or XML Schemas into the project, as shown in the following procedure. All the included XML Schemas must be located before the main XML Schema or WSDL document shows in the Project tab and can be used in the project.

## Procedure

---

1. Upload an XML Schema or WSDL document into the current project. If the XML Schema or WSDL document includes other XML Schemas, the Uploading Included XML Schemas dialog box displays listing all the included XML Schemas as shown in [Figure 1](#).

Figure 1. Uploading Included XML Schemas

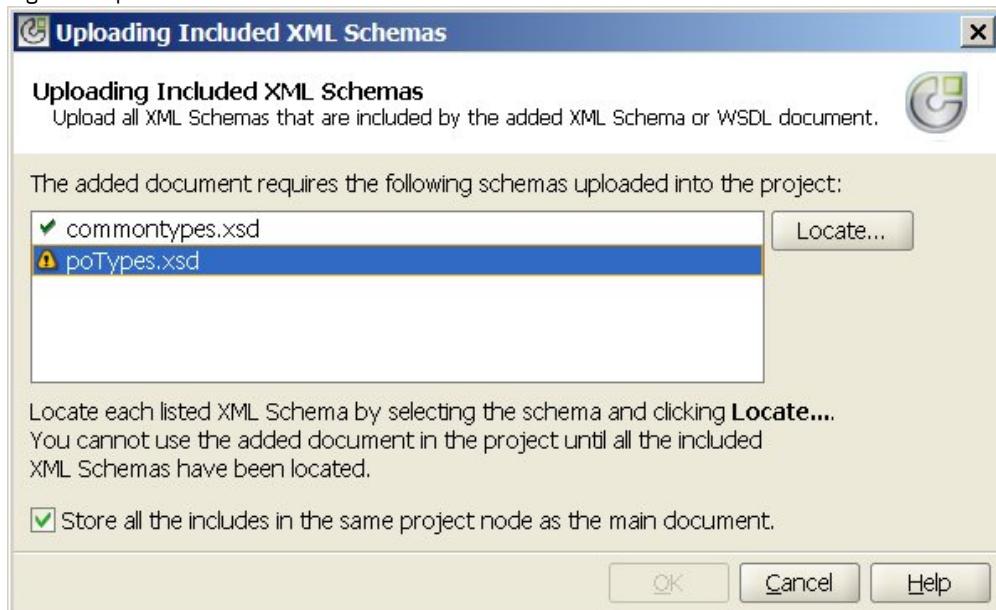


If the included XML Schema is automatically located, the checkmark icon displays next to the XML Schema in the Uploading Included XML Schemas dialog box as shown for the `commonTypes.xsd` XML Schema in the preceding figure. If the main XML Schema or WSDL was located on the local file system, Studio looks for the included XML Schemas in the same directory and automatically locates them; for example, if you uploaded `mySchema.xsd` from the `C:\temp` directory and `mySchema.xsd` includes the `commonTypes.xsd` XML Schema, Studio automatically locates the `commonTypes.xsd` XML Schema in the `C:\temp` directory. If the included XML Schema is not automatically located, the warning icon displays next to the XML Schema in the Uploading Included XML Schemas dialog box as shown for the `poTypes.xsd` XML Schema in Figure 1.

2. Repeat the following steps to locate all the unlocated XML Schemas:

- Select the XML Schema in the Uploading Included XML Schemas dialog box. The XML Schema is highlighted in the table as shown in Figure 2.

Figure 2. Upload an XML Schema



- Click Locate. The Locate the Selected XML Schema dialog box is displayed.
- In the Location field, specify the location of the included XML Schema from an external web location or from the file system.
- Click OK. If the XML Schema is located, the checkmark icon displays next to the XML Schema in the Uploading Included XML Schemas dialog box.

3. By default, the `Store all the includes in the same project node as the main document` check box is selected. When this check box is selected, the included XML Schemas and the main XML Schema or WSDL are uploaded as a single project node. When this check box is cleared, all the included XML Schemas and the main XML Schema or WSDL are all displayed separately in the Project tab. A checkmark icon shows next to every listed XML Schema indicating that all the included XML Schemas have been located.

4. Click OK.

## Example

If the Store all the includes in the same project node as the main document check box is selected, only the main XML Schema or WSDL displays in the Project tab as shown in [Figure 3](#).

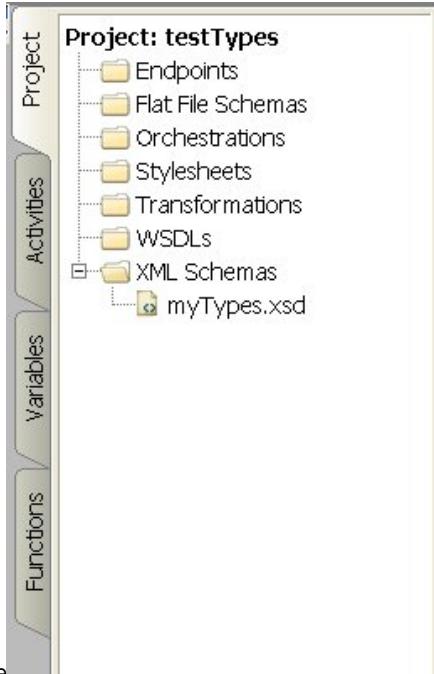


Figure 3. Example

With the check box selected, the included XML Schemas are still uploaded into the project but are not displayed in the Project tab, so you cannot individually update these XML Schemas in the project as described in [Uploading Included XML Schemas](#).

If the Store all the includes in the same project node as the main document check box is cleared, the main XML Schema or WSDL displays and all the included XML Schemas are uploaded in the project and show in the Project tab as shown in [Figure 4](#).

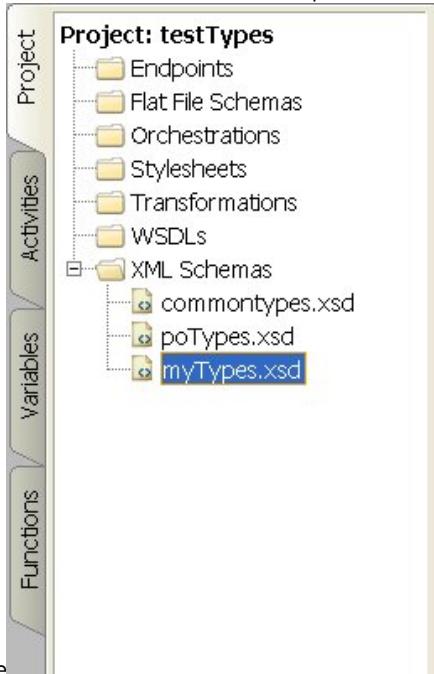


Figure 4. Example

With the check box cleared, all the included XML Schemas can be individually updated as described in [Uploading Included XML Schemas](#).

Note: If possible, always load the main XML Schema or WSDL with this check box selected (as one project node) to reduce potential dependency conflicts between XML Schemas. For example, if you upload the main "myTypes.xsd" file into the project with the Store all

the includes in the same project node as the main document check box cleared, the following XSD files are also uploaded and show in the Project tab:

- commonTypes.xsd
- poTypes.xsd

If you created and uploaded a third XSD file called *myTypesTwo.xsd* that also included and used the types defined in the *commonTypes.xsd* file, and you then changed the names of the types defined in the *commonTypes.xsd* and used in *myTypes.xsd* outside of Studio and uploaded new versions these files, the *myTypesTwo.xsd* file in the project still refers to the original names of the types and is now invalid.

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## Specifying the Location of a File to Upload

---

Files can be uploaded into a project from a web location (HTTP or FTP Server) or from the local file system.

### Procedure

---

1. To specify a location for the file from the local file system, choose from one of the following options:
  - Click Browse to browse for the file, and click Open.
  - In the Location field, enter the URI of the file on the local file system, for example: file:/C:/temp/mySchema.xsd
2. To specify a location for the file from an external web location (FTP or HTTP Server), in the Location field enter the URI of the file using any of the following format descriptions:
  - http://[username:password@]hostname[:portNumber]/location
  - https://[username:password@]hostname[:portNumber]/location
  - ftp://[username:password@]hostname[:portNumber]/locationThe preceding format descriptions contain the following representations:
  - brackets [] - represent optional parameters and should not be included in the URI
  - username - specifies the user name to connect to the HTTP or FTP server
  - password - specifies the password of the specified user name to connect to the HTTP or FTP server
  - portNumber - specifies the port number to use to connect to the HTTP or FTP server
  - location - specifies the URL path to find the file. The URL must include the name of the file as shown in the following example.

### Example

---

To upload the *mySchema.xsd* file from the *acme.com* FTP server in the /input directory using the username *bob* with a password of *snippy1*, specify the following string in the Location field:

- ftp://bob:snippy1@acme.com/input/mySchema.xsd

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## Valid External File Types for a Project

---

When building orchestrations, you can upload XML Schemas or other files into your project to complete configuration tasks. External files are used in connection activities and orchestrations that use a message that Studio cannot generate an XML schema for automatically. You must supply an XML schema or DTD if the message must be transformed or if you need to define a job key for the message.

The types of files that you can upload into a project and the file extensions they are required to include:

Table 1.

Type	File Extension	Description
XML DTD	*.dtd	XML Document Type Definitions (DTDs) define XML message formats using a non-XML syntax. Studio automatically converts DTDs to XML Schemas when you load them into a project.
Web Services Definition Language	*.wsdl	An XML document that defines the W3C Web Services Definition Language. Studio uses WSDLs to describe all messages in integration transactions.
XML Schema	*.xsd	A definition of an XML message format using the W3C XML Schema language. Studio uses XML Schemas to describe all messages in integration transactions.  Note: Only global elements are shown as schema types in Studio. A global element is an immediate child of the schema element. If the schema file contains no global elements, then the schema will appear to be empty in Studio.

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## About Valid Names

---

To be valid, the names for projects, Endpoints, orchestrations, stylesheets, Flat File Schemas, XML Schemas, WSDLs, and transformations must not exceed 42 characters and must not contain any of the reserved characters or words.

Reserved characters or words are listed in the following tables.

The names of activities must not exceed 30 characters and must not contain any of the reserved characters listed in the table provided in [Table 3](#).

Table 1. Reserved Characters

Reserved Characters	Description
&	ampersand
{ } [ ] < > Â	any brackets
*	asterisk
\	backslash
^	caret
:	colon
\$	dollar sign
/	forward slash

<b>Reserved Characters</b>	<b>Description</b>
#	number sign
()	parenthesis
	pipe
.	period
?	question mark
;	semicolon
Â	space
~	tilde

Table 2. Reserved Words  
for Windows

<b>Reserved Words for Windows</b>
AUX
COM1
COM2
COM3
COM4
CON
LPT1
LPT2
LPT3
PRN
NUL

Table 3. Reserved Characters  
For Activity Names.

The names of activities must not exceed 30 characters and must not contain any of the reserved characters listed in the following table:

<b>Reserved Characters</b>	<b>Description</b>
&	ampersand
{ } [ ] < > Â	any brackets
*	asterisk
\	backslash
:	colon
\$	dollar sign
/	forward slash
	pipe
.	period
?	question mark
;	semicolon
~	tilde

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## Undo and Redo Operations

---

Studio stores up to the last 100 actions you make and you can undo and redo those actions. You can undo and redo an action that you take on the fields in the UI, orchestration views, Mapping Editor, project tree, configuration properties, and variable panel activities.

### Before you begin

---

Note: When you close Studio, the history of actions you have taken is cleared and you cannot undo or redo actions that occurred prior to you closing Studio.

### Procedure

---

1. Select the Edit menu.
2. Select Undo, to undo the last action.
3. Select Redo, to redo the last action.

### Results

---

You can also undo and redo actions using the following keyboard shortcuts:

- Ctrl + Z: Undo last action
- Ctrl + Y: Redo last action

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## Updating a Changed XML Schema

---

If you created a project that uses an XML Schema and the XML Schema changes, you can attempt to update the existing XML Schema with the new XML Schema.

### About this task

---

Updating to a new XML Schema means that any of the project entities that interface with the XML Schema might be affected by the change. The following project entities can be affected by XML Schema change:

- Maps that refer to the XML Schema, both stand-alone maps and the inline maps in activities.
- Variables that refer to the XML Schema.
- XPath expressions in orchestrations.
- XPath expressions used in job keys.
- Some Endpoint configurations.

- Conditions defined in orchestrations.

During the update process, Studio reports which project entities are affected by the change before the change is committed.

For example, an XML Schema defines an input parameter to the Map Variables activity. In the From Orchestration pane of the Map Variables activity there are links between the nodes of the input parameter to the nodes of the output parameters. When the XML Schema that defines the input parameter is updated to the new XML Schema, those links might no longer be valid if the input nodes have been renamed or removed in the new XML Schema. You must recreate the links in order for the orchestration to be valid again.

In some cases, Studio completely prevents the uploading a new XML Schema for the following reasons:

- The new XML Schema is invalid.
- Uploading the new XML Schema to replace the existing one, would result in an invalid project.

Note: Updating an existing XML Schema (as described in the following procedure) is different from loading multiple XML Schemas into a project by either dragging a file into the Project tab or right-clicking on the XML Schemas folder in the Project tab and selecting Add Document. Updating an existing XML Schema replaces the existing XML Schema in the project while uploading the same file into the Project tab creates two instances of the XML Schema in the project.

## Procedure

---

1. Open the XML Schema that is already used in the project that is to be replaced by the new XML Schema. Open the graphical representation:
  - a. Open the Project tab and double-click the XML Schema in the XML Schemas directory. The nodes of the XML Schema display in the XML Schema tab.
  - b. In the XML Schema tab, click any node of the XML Schema.
2. Select a new XML Schema to replace the existing XML Schema, using one of the following options:
  - o In the graphic representation, you can drag an XML Schema file from the local file system onto the XML Schema open in the XML Schema tab.
  - o Select the File > Update option on the Studio toolbar menu. The Update the Current Schema Document dialog box displays. In the Location field, specify the location of the new XML Schema from an external web location or from the file system.
3. Click OK. The Updating the XML Schema Affects the Listed Dependant Project Entities dialog box displays and any project entities that are possibly affected by the replacement of the original XML Schema with the new XML Schema are listed.
4. Optional: In the dialog box, click any of the listed dependent entities to view the affected entity in Studio.
5. Click Update. Studio attempts to update the project with the new XML Schema and the result of the attempted update depends on the following conditions:
  - o If any of the changes in the XML Schema would result in a corrupted project after the update or the new XML Schema is invalid, an Error dialog box displays describing the problem with the XML Schema. Click OK. The update is canceled, the XML Schema reverts to the original XML Schema, and the project is not changed.
  - o If the changes to the XML Schema would not result in a corrupted project and the XML Schema is valid, the update occurs and the original XML Schema is replaced by the new XML Schema. Some of the project entities might be invalid after the update and might require clean up. For example, links in the Map Inputs and Map Outputs panes might need to be recreated after the update. To find the validation errors, open an orchestration and select Orchestration > Validate from the Studio toolbar menu.
6. Click Close.

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## Using the Project Explorer

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The Project Explorer dialog box list the set of entities of the current type, that have been already defined for the project.

## Procedure

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1. Select an item.
2. Click OK.

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## Using the HTTP Post Utility

---

This utility provides a simple HTTP client interface that enables you to post messages/requests to HTTP servers, which is useful for orchestrations that have an **HTTP Receive Request** activity as the starter activity.

### About this task

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To use this utility, either Studio or the Integration Appliance must be a web server capable of receiving messages from any http client interface.

### Procedure

---

1. From the Windows Start menu, choose Programs > IBM > Cast Iron Studio > HTTP Post Utility. A web browser opens and displays the Post a Document page.  
Note: If you are using the HTTP Post Utility with Internet Explorer 8, you must click the Information Bar and select Allow Blocked Content to avoid duplicate forms being displayed.
2. In the URL of Inbound Connector field, specify the hostname of the HTTP server, followed by the HTTP path.
3. In the Document to Post field, you have two options:
  - Click Browse and open an existing file.
  - Enter the message into the text field.
4. Click Submit to post the message.

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## Orchestrations

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- [Configuring an orchestration to orchestration connection](#)

You can configure a Web Service endpoint to call another Web Service orchestration stored in the Integration Appliance, in the same project.

- [Creating an orchestration](#)

There are three steps to creating a completed orchestration: Create the new orchestration, rename the orchestration, and build the orchestration.

- [Renaming an orchestration](#)

Orchestrations are given default names when they are created. You can rename it from the Project tab.

- [Building an orchestration](#)

Studio provides visual cues in the workspace so that it is easier to see and control the placement of activities in an orchestration. When you drag-and-drop activities from the Studio Toolbox to the workspace, a green circle icon displays the

target location in the orchestration where the activity is to be placed. When adding activities to the branches of logic activities, Studio highlights the target branch.

- [Verifying orchestrations](#)

Studio can simulate the Cast Iron® operating system (CIOS) runtime so that you can test orchestrations within a project and resolve any issues before deploying the project to the Integration Appliance.

- [Using SSL in Studio](#)

The Secure Sockets Layer (SSL) is the standard security technology for establishing an encrypted link between a server and a client. The encrypted link ensures that all data passed between the server and clients remain private and unchanged. To create an SSL connection a server requires an SSL certificate. This section provides an overview of using SSL in Studio, discusses Transport Layer Security (TLS) and SSL security, discusses certificates and supplies the procedures you need to properly import Certificate Authority (CA) and end-entity certificates and private keys for use when verifying SSL client authentication.

- [Importing an end-entity certificate](#)

An end-entity certificate is a digitally-signed statement issued by a Certificate Authority to a person or system. It binds a public key to some identifying information and is used for encryption, authentication, digital signatures and other purposes. The term “end-entity” is used to distinguish it from a Certificate Authority certificate. The signer of the statement is the issuer and the entity discussed in the certificate is the subject.

- [Importing a Certification Authority \(CA\) Certificate](#)

Abbreviated as CA, a Certification Authority is a trusted third-party organization or company that issues certificates used to create digital signatures and public-private key pairs. Because they guarantee that the two parties exchanging information are really who they claim to be, CA's are a critical component in data security and electronic commerce. Although the relationship between CA's is most commonly hierarchical, CA certificates can also be used to establish trust relationships between CA's in two different public key infrastructure (PKI) hierarchies. A PKI is the set of people, policies, procedures, hardware, and software used in creating, distributing, managing and using digital IDs. In all of these cases, the CA certificate is critical to defining the certificate path and usage restrictions for all end-entity certificates issued for use in the PKI.

- [SSL server authentication](#)

SSL server authentication verifies that sites you communicate with are who they claim to be. Authentication confirms a server's identity through standard techniques of public-key cryptography to ensure that a server's certificate and public ID are valid and have been issued by a certificate authority listed in the client's list of trusted CA's.

- [Testing an SSL server connection](#)

After creating an endpoint for the server using SSL, you are ready to test the SSL server connection.

- [SSL client authentication](#)

Client authentication is similar to server authentication except that the server requests a certificate from the client to verify that the client is who it claims to be. The certificate must be an **X.509** certificate and signed by a certificate authority trusted by the server. You can only use client authentication when a server requests a certificate from a client. Not all servers support client authentication.

- [Using the Log Viewer](#)

Orchestration monitoring data is displayed in the Log Viewer in a table or text format.

- [Viewing an orchestration](#)

You can use orchestration view icons on the workspace, and View options from the Studio toolbar menu to manipulate your orchestration view in the workspace.

- [Validating an orchestration](#)

An orchestration must be valid (complete and correct) before you can publish it to the Integration Appliance. Use the validation feature in Studio to validate your orchestration.

- [Working with activities in an orchestration](#)

You can cut, copy, and paste activities, drag activities in an orchestration and add and delete new activities.

- [Printing an orchestration](#)

You can print an orchestration directly or view a print preview of an orchestration.

- [Processing orchestration jobs sequentially](#)

You can use the Process Orchestration Jobs Sequentially option when an orchestration contains activities that can conflict with each other when multiple instances of the orchestration are running. An instance of an orchestration is also known as an orchestration job.

- [Enabling persistence](#)

The Orchestration pane contains an Enable Persistence check box that by default is selected. The setting of the Enable Persistence check box affects the way orchestration jobs are restarted after a failure.

- [Adding a global exception handler to an orchestration](#)

During run time if any of the activities of the orchestration throws an exception, and a global exception handler has been enabled, the global CatchAll branch is run.

- [Saving an image of an orchestration](#)

You can save a graphical image of the current orchestration as a .jpg file.

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## Configuring an orchestration to orchestration connection

---

You can configure a Web Service endpoint to call another Web Service orchestration stored in the Integration Appliance, in the same project.

### About this task

---

You can configure an Orchestration to Orchestration connection by specifying the transport protocol to the endpoint location as local:// instead of the conventional http://.

You apply this option to either call (invoke) or provide endpoint type.

Note:

When an orchestration that has Web Services Provide service starter activity with Transport type set to Local, referred to as sub-orchestration, then persistence setting for the main orchestration and the sub-orchestration should be same within the same project.

For example, if the persistence is enabled for the main orchestration, then it should be enabled for the sub-orchestration also. If the persistence is disabled in the main orchestration, then it should be disabled for the sub-orchestration and vice-versa.

### Procedure

---

1. Â Open a new or existing Web Service endpoint.
2. In the Type section, select either the Invoke option or Provide option. Invoke is selected by default.
  - o If you select the Invoke option, complete the following steps:
    - a. From the Location drop-down list, select Local
    - b. From the Orchestration drop-down list, select the orchestration you want to call.
    - c. From the WS Provide Activity drop-down list, select an activity.  
Note: This activity is displayed only if the selected orchestration has a Web Services Provide Service starter activity and Local as the relevant endpoint. If you select an orchestration that does not have a Web Services Provide Service starter activity, then the WS Provide Activity menu is empty.
  - o If you select the Provide option, complete the following steps:
    - a. From the Transport drop-down list, select Local.
    - b. In the Path field, enter the path which is used to call the Provide activity.

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## Creating an orchestration

---

There are three steps to creating a completed orchestration: Create the new orchestration, rename the orchestration, and build the orchestration.

### Procedure

---

1. Complete one of these three steps to create a new Orchestration:
  - o To create an orchestration from the toolbar menu, select Project > New Orchestration. A new orchestration is opened in the workspace. The new orchestration name is added to the Orchestrations folder in the Project tab.
  - o Click the New Orchestration button  in the Project tab.
  - o Right-click the Orchestration folder and select New Orchestration. A new orchestration opens in the main Studio pane. The new orchestration with a default name is added to the Orchestrations folder in the Project tab.
2. Optional: Change the default name.
3. Press Return.

**Parent topic:** [Orchestrations](#)

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## Renaming an orchestration

---

Orchestrations are given default names when they are created. You can rename it from the Project tab.

### Procedure

---

1. Click the Project tab.
2. Open the Orchestrations folder.
3. Either
  - o Right-click the orchestration you want to rename and select Rename.
  - o Click three times on the orchestration name in the Project tab.
4. Enter a new name for the orchestration. The orchestration name must not exceed 42 characters and must not contain any reserved characters. For a list of reserved characters see [About Valid Names](#).
5. The orchestration name is changed.

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## Building an orchestration

---

Studio provides visual cues in the workspace so that it is easier to see and control the placement of activities in an orchestration. When you drag-and-drop activities from the Studio Toolbox to the workspace, a green circle icon displays the target location in the orchestration where the activity is to be placed. When adding activities to the branches of logic activities, Studio highlights the target branch.

### Procedure

---

1. Drag the appropriate activities from the Activities tab onto the orchestration
2. Configure the activities. You must add at least one inbound activity (or one schedule), and one outbound activity in order to complete an orchestration. See the Basic Validation Requirements section of [Validating the Orchestration](#) for more information.

3. After the orchestration is built, set the orchestration options in the Properties pane. For more information see [Processing Orchestration Jobs Sequentially](#) and Enabling Persistence.
4. Save the orchestration, then validate it.
5. Fix any validation issues displayed in the Validation Results dialog box.

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## Verifying orchestrations

---

Studio can simulate the Cast Iron® operating system (CIOS) runtime so that you can test orchestrations within a project and resolve any issues before deploying the project to the Integration Appliance.

### Before you begin

---

When initiating a test run, you can start a single orchestration, or all the orchestrations in a project. Studio runs one orchestration job for each orchestration. You can start and stop orchestrations, and view orchestration monitoring logs from the Studio toolbar or from the Verify tab.

If the orchestration is invalid, a message dialog is displayed showing possible resolutions. In the workspace, Studio highlights each activity in the orchestration as the activity is processing the data. As Studio runs the orchestration, the Verify tab shows a tree-view of the orchestration job details including; activity name, processing status, variable/parameter names, and variable/parameter data. If an error occurs, Studio highlights the node where the error occurred. Clicking the node links you to the location of the error, where you can resolve any issues before running another instance of the orchestration. ▾

When you click a node in the tree-view, Studio displays in the Properties Pane the Checklist task that corresponds to the node. For example, when you click an activity node, the Configure panel for the activity is displayed in the Properties Pane. When you click the Map Outputs node, the Map Outputs panel is displayed in the Properties Pane. If you click a mapping variable or parameter, the data is displayed in the Variable/Parameter Message Data section of the Verify tab.

Although Studio only runs one orchestration job for each orchestration, you can start the same orchestration multiple times. The Verify tab shows the results for each run of the same orchestration under a separate instance. For example, *Instance #1* and *Instance #2*. An orchestration job must be complete before you can run another instance of the same orchestration.

Note: Studio does not persist the results of the runtime test. When you close the orchestration tab, you lose the runtime results for the orchestration.

### About this task

---

Depending on the activities in the orchestration, Studio may require more input to run the orchestration job. For example, an orchestration with a database activity requires that you generate database assets before running the orchestration in Studio, just as you must do in the WMC before running the orchestration on the Integration Appliance. If the activities in the orchestration use the Secure Sockets Layer (SSL), you may need to understand SSL concepts and you may need to import certificates before verifying the orchestration. See [Using SSL in Studio](#) for more information.

If the orchestration contains an HTTP Receive Request activity, you must post a message to the specified URL. Use the HTTP Post Utility to post a message. If the orchestration contains an FTP Poll activity, you must place a file in the specified location, as prompted by Studio, before the orchestration can run.

Since you can use the Verify tab to simulate the runtime on the Integration Appliance, you can also specify Kerberos Protocol settings in Studio to test the settings before deploying to the Integration Appliance. Specifying these setting in Studio does not impact the runtime on the Integration Appliance. You must specify the Kerberos Protocol settings in the WMC to allow the Integration Appliance to authenticate the server that the Integration Appliance is communicating with. For more information about specifying Kerberos Protocol settings for the Integration Appliance, see the WMC Online Help.

## Procedure

---

To specify Kerberos Protocol settings in Studio:

1. In Studio, select Edit > Preferences... . The Preferences dialog is displayed.
2. In the navigation pane, select SSL > Kerberos.
3. Specify the Kerberos Server Name.
4. Specify the Kerberos Realm.
5. Click OK.

## Example

---

You can now test the orchestration, using the Kerberos Protocol, within Studio.

Table 1. Navigating the Verify Tab toolbar

I c o n	Description
▶	Starts the open orchestration. The orchestration must be valid before Studio can run an orchestration job. ▶
▶	Starts all the valid orchestrations in the project that are not already running. If an orchestration is already running when you click this icon, Studio does not rerun the orchestration. ▶
■	Stops the running orchestration job immediately. Studio does not allow the orchestration job to complete before stopping. ■
■	Stops all running orchestration jobs immediately. Studio does not allow the orchestration jobs to complete before stopping. ■
⌚	Shows orchestration monitoring data in a table or text format. For more information about the Log Viewer, see <a href="#">Using the Log Viewer</a> .
✎	In the Workspace, highlights the activities in the execution path of the orchestration job, so you can follow the logic Studio used to complete the orchestration job. Different instances can have a different path depending on the inputs and orchestration logic. Click this icon to toggle between providing and not providing a highlighted path.
⊕	Assigns the results from the selected instance to the Map Inputs and Map Outputs, so that when you run a test from the Properties Pane, Studio populates the inputs and outputs with the results of the completed orchestration job.
✖	Deletes one or more selected instances from the orchestration details tree. To delete multiple instances hold the Shift key or Ctrl key, select the instances you want to delete, and click the icon.
⊕	Expands all the nodes under the selected node in the orchestration details tree.
⊖	Collapses all the nodes under the selected node in the orchestration details tree.
⊕	Expands a single node under the selected node in the orchestration details tree.
⊖	Collapses a single node under the selected node in the orchestration details tree.

Parent topic: [Orchestrations](#)

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## Using SSL in Studio

---

The Secure Sockets Layer (SSL) is the standard security technology for establishing an encrypted link between a server and a client. The encrypted link ensures that all data passed between the server and clients remain private and unchanged. To create an SSL connection a server requires an SSL certificate. This section provides an overview of using SSL in Studio, discusses Transport Layer Security (TLS) and SSL security, discusses certificates and supplies the procedures you need to properly import Certificate Authority (CA) and end-entity certificates and private keys for use when verifying SSL client authentication.

## SSL and Transport Layer Security

---

TLS 1.0 represents an upgrade of SSL 3.0. As an example, the TLS handshake protocol for establishing client/server authentication and encryption differs from the SSL handshake protocol. Additionally, TLS is now more extensible. Although they cannot interoperate, TLS provides a mechanism by which a TLS 1.0 implementation can revert to an SSL 3.0 implementation.

The TLS protocol uses public-key and symmetric-key cryptographic technology. Public-key cryptography uses a public key and a private key. Information encrypted with one key can be decrypted only with the other key. For example, information encrypted with the public key can be decrypted only with the private key.

Each server's public key is published, while the private key is kept secret. To send a secure message to the server, the client encrypts the message by using the server's public key. When the server receives the message, it decrypts the message with its private key.

Symmetric-key cryptography uses the same key to encrypt and decrypt messages. The client randomly generates a symmetric key to be used for encrypting all session data. The key is then encrypted with the server's public key and sent to the server.

TLS provides three basic security services:

- Message privacy — Achieved through a combination of public-key and symmetric-key encryption. All traffic between a client and a server is encrypted using a key and an encryption algorithm negotiated during session setup.
- Message integrity — Ensures that session traffic does not change en route to its final destination. TLS and SSL use a combination of public/private keys and hash functions to ensure message integrity.
- Mutual authentication — Exchange of identification through public-key certificates. Client and server identities are encoded in public-key certificates, which contain the following components:
  - Subject's distinguished name
  - Issuer's distinguished name
  - Subject's public key
  - Issuer's signature
  - Validity period
  - Serial number

You can also use secure HTTP (HTTPS) to ensure that a client's security information is not compromised when downloaded from a server.

## Certificates

---

SSL uses digital certificates to authenticate the identity of the server and optionally the client. Digital certificates are issued by a Certificate Authority (CA), a trusted agency that is authorized to issue, renew and revoke digital certificates after verifying the identity and legitimacy of the requesting party. A CA certificate, which may be a root CA certificate or a subordinate CA certificate, includes the CA's signature and the period of validity. A CA guarantees the connection between a key and another CA or end-entity. A end-entity is a person, a role, an organization, a pseudonym or a piece of hardware or software.

Encryption and authentication are performed by means of a public and a private key. The public key is embedded into a certificate, known as a site or server certificate. The certificate contains several items of information, including the name of the CA that issued the certificate, the name and public key of the server or client, the CA's signature and the certificate's date and serial number. The private key is created when you create a self-signed certificate or a CA certificate request and is used to decrypt messages from clients.

A SSL or TLS session is established in the following sequence:

1. The client and the server exchange hello messages to negotiate the encryption algorithm and hashing function (for message integrity) to be used for the session.
2. The client requests an *ITU-T standard X.509* certificate from the server to prove its identity. Optionally, the server can request a certificate from the client. Certificates are verified by checking the certificate format, the validity dates and by verifying that the certificate includes the signature of a trusted certificate authority (or is self-signed).
3. The client randomly generates a set of keys that is used for encryption. The keys are encrypted with the server's public key and securely communicated to the server.

**Parent topic:** [Orchestrations](#)

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## Importing an end-entity certificate

---

An end-entity certificate is a digitally-signed statement issued by a Certificate Authority to a person or system. It binds a public key to some identifying information and is used for encryption, authentication, digital signatures and other purposes. The term "end-entity" is used to distinguish it from a Certificate Authority certificate. The signer of the statement is the issuer and the entity discussed in the certificate is the subject.

### About this task

---

To import an end-entity certificate and private key, you must import a file in PKCS#12 format using the `keytool -importkeystore` command. PKCS #12, the successor to PFX from Microsoft, defines a file format commonly used to store **X.509** private keys with accompanying public key certificates, protected with a password-based symmetric key. PKCS #12 format files typically have a file extension of .pfx or .p12.

The following steps provide an example of how to import an end-entity certificate:

### Procedure

---

1. Navigate to the Studio security directory. For example. C:\Program Files\IBM\WebSphere Cast Iron Studio 6.0\security.
2. Copy the PKCS #12 format file into Studio security directory, for example C:\Program Files\IBM\WebSphere Cast Iron Studio 6.0\security\certificate.p12.
3. Import the certificate and private key into the Studio keystore using the `keytool -importkeystore` command. For example:  
`keytool -importkeystore -deststorepass "keystore admin" -destkeystore certs -srckeystore certificate.p12 -srcstoretype PKCS12 -srcstorepass <certificatePswd> -srcalias <certificateAlias>`.

### Results

---

At the conclusion of these steps, the certificate is imported into your Studio security directory. For more information about the `keytool -importkeystore` command, see:

<http://www.ibm.com/developerworks/java/jdk/security/60/secguides/keytoolDocs/keytool.html#importKeyStore>.

**Parent topic:** [Orchestrations](#)

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## Importing a Certification Authority (CA) Certificate

---

Abbreviated as CA, a Certification Authority is a trusted third-party organization or company that issues certificates used to create digital signatures and public-private key pairs. Because they guarantee that the two parties exchanging information are really who they claim to be, CA's are a critical component in data security and electronic commerce. Although the relationship between CA's is most commonly hierarchical, CA certificates can also be used to establish trust relationships between CA's in two different public key infrastructure (PKI) hierarchies. A PKI is the set of people, policies, procedures, hardware, and software used in creating, distributing, managing and using digital IDs. In all of these cases, the CA certificate is critical to defining the certificate path and usage restrictions for all end-entity certificates issued for use in the PKI.

### About this task

---

Perform the following steps to import a CA certificate.

### Procedure

---

1. Open a command window.
2. Navigate to the server, and locate the certificate file `ca-cert` stored in the server.
3. Copy the `ca-cert` file and then navigate to the workstation where Studio is installed.
4. Using the command window, paste the CA certificate copy in the home directory of Studio: `C:\Program Files\IBM\WebSphere Cast Iron Studio x.x.x`.
5. Navigate to the security directory of Studio: `C:\Program Files\IBM\WebSphere Cast Iron Studio x.x.x\security`.
6. Run the following command to import the CA certificate file into Studio: `..\jre\bin\keytool.exe -import -v -keystore cacerts -storepass changeit -file ..\castiron_ca_cert.pem -alias alias_name` Where `alias_name` is the alias of the server CA certificate.
7. When you are prompted for a yes or no, type yes (`Y`) and press **Enter**.
8. Exit the command window.

## Results

---

At the conclusion of these steps, the certificate is imported into your Studio security directory. For more information about the `keytool -import` command, see [keytool - Key and Certificate Management Tool](#).

**Parent topic:** [Orchestrations](#)

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## SSL server authentication

---

SSL server authentication verifies that sites you communicate with are who they claim to be. Authentication confirms a server's identity through standard techniques of public-key cryptography to ensure that a server's certificate and public ID are valid and have been issued by a certificate authority listed in the client's list of trusted CA's.

Communication with "trusted" servers that possess authentication certificates issued by a certificate authority is critical to establishing a secure environment. Authentication certificates are digitally signed documents which bind the public key to the identity of the private key owner. Authentication happens at connection time and is independent of the application or application protocol. With SSL, authentication is performed by an exchange of certificates, which are blocks of data in a format described in the [X.509 ITU-T standard](#). **X.509** certificates are issued and digitally signed by a certificate authority.

However using SSL does not guarantee that the client is communicating with the correct server. Consider the following scenario, in which "Server1" and "Server2" both have valid certificates from a CA that the client ("Client") trusts. Client wants a secure session with Server1, but Server2 wants to eavesdrop on their communication and is physically located in a place that makes it possible to do so:

1. Client sends a request for an SSL session to Server1. Instead, the request (and all subsequent traffic) goes through Server2. Instead of forwarding Client's request to Server1, Server2 responds directly to the request by sending its own certificate to Client.
2. Client receives Server2's certificate and checks its list of trusted CAs. Since Server2's certificate is signed by the same CA as Server1's certificate, Client accepts the certificate and creates a secure session with Server2.
3. Having completed the secure session with Client, Server2 requests and creates its own SSL session with Server1. From this point, Client sends encrypted information to Server2. Server2 decrypts the information, re-encrypts it, then sends it to Server1. It does the same for information flowing in the opposite direction. The result is that Server2 is able to read it and even change it, even though all data is encrypted as it flows over the Internet.

SSL server authentication is designed to prevent this outcome. When server authentication is enabled, the client, after ensuring that the server's certificate can be trusted, checks that the Internet name in the certificate matches the Internet name of the server. If they match, the SSL negotiation continues. If not, the connection ends.

With server authentication enabled, the security scenario outlined above would proceed as follows:

1. Client sends a request for an SSL session to Server1. The request (and all subsequent traffic) actually goes through Server2. Instead of forwarding Client's request to Server1, Server2 responds directly to Client's request by sending its own certificate to Client.

2. Client receives Server2's certificate and checks its list of trusted CAs. Since Server2's certificate is signed by the same CA as Server1's certificate, Client accepts the certificate and creates a secure session with Server2.
3. After the secure session has been completed, but before any real data has been sent or received, Client compares the Internet name in the certificate it received with the name of the server it wants to talk to. Since they do not match, Client knows that the connection should not continue and disconnects it.

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## Testing an SSL server connection

---

After creating an endpoint for the server using SSL, you are ready to test the SSL server connection.

### About this task

---

Perform the following procedure to test the SSL connection to the server:

### Procedure

---

1. Import the server CA certificate using the instructions in [Importing a Certification Authority \(CA\) Certificate](#).
2. Open the endpoint for the server.
3. For FTPS, SSL email and SSL database connections, verify the following login credentials for the server connection: server, Port, User, and Password.
4. For HTTP and Web Services connections using SSL, if the HTTP or Web Services server requires client authentication, configure a Client Certificate Alias Name as described in [Creating or editing an HTTP endpoint](#).
5. Click **Test Connection**.
6. If the connection is successful, use this endpoint in Studio orchestrations, then use the **Verify** tab features to evaluate the orchestration.

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## SSL client authentication

---

Client authentication is similar to server authentication except that the server requests a certificate from the client to verify that the client is who it claims to be. The certificate must be an **X.509** certificate and signed by a certificate authority trusted by the server. You can only use client authentication when a server requests a certificate from a client. Not all servers support client authentication.

When a server requests a certificate, the client has the option to send a certificate or attempt to connect without it. The server allows the connection if the client's certificate can be trusted. When a client attempts to connect without a certificate, the server might grant the client access but at a lower security level, as illustrated by the following sequence of events:

1. The client sends a request for an SSL session to the server.
2. The client receives the server's certificate and checks its list of trusted CA's. Since the server's certificate is signed by a trusted certificate authority, the client accepts the certificate. The server then asks the client for a certificate that identifies the client.

3. The client responds by sending a certificate or by trying to establish a session without one.
4. If the client sends a certificate, the server checks its list of trusted certificates. If the client can be trusted, the secure session is established. If the client does not send a certificate, normally the server terminates the session.

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## Using the Log Viewer

---

Orchestration monitoring data is displayed in the Log Viewer in a table or text format.

By default, the following orchestration monitoring data is displayed by the Log Viewer, in a table:

Time

Provides a timestamp of when the specified event occurred.

Level

Specifies the logging level for a specific event. Logging levels include: Off, Severe, Warning, Info, and All.

Type

Identifies the type of the activity that generated the event. For example, Scheduler, Mime, JMS, or HTTP.

Message

Provides details about a specific event.

You can filter the log events displayed in the table by specifying the logging level or an activity type from the Level and Type list. When filtering the log events by type, you can press the Shift key to select or clear multiple types.

To toggle between the text or table format, select or clear the View as Text option.

Click Clear to delete all orchestration monitoring data.

You cannot restore orchestration monitoring data to the log once the log has been cleared.

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## Viewing an orchestration

---

You can use orchestration view icons on the workspace, and View options from the Studio toolbar menu to manipulate your orchestration view in the workspace.

### About this task

---

The workspace denotes source and target endpoints by using blue and green separating lines, respectively. With the endpoints displayed, the workspace uses data flow lines to associate an endpoint with a specific activity so that you can associate an activity with its endpoint.

You can manipulate the orchestration view in the workspace using the following icons:

#### Orientation of Orchestration

You can choose to view the orchestration in a horizontal  or vertical  view.

#### Expand or Collapse Orchestration Activities

Expands  or collapses the activities in an orchestration.

#### Orientation of Endpoints

You can choose to view the endpoints in a horizontal  or vertical  view, relative to the orchestration.

#### Show/Hide Endpoints

You can choose whether to display endpoints for the orchestration in the workspace. Show/Hide endpoints that are oriented horizontally . Show/Hide endpoints that are oriented vertically .

#### Expand or collapse Orchestration

Expands , or collapses  the entire orchestration, not just the activities.

#### Animate Graph

 Animates the actions that occur in the workspace. By default, orchestration graphics in the workspace are animated and Studio smoothly transitions any modifications you make to an orchestration. Click the icon to disable the animations and have the actions occur more crisply. For example, when you add an activity to the orchestration, the new activity snaps into place.

Â

#### Navigate Satellite View

 You can view your entire orchestration and select a specific area to view.

#### Zoom Out

 Minimizes the view of an orchestration. Â

#### Zoom In

 Enlarges the view of an orchestration.

#### Restore view to 100%

 Resets the zoom out and zoom in changes you made to the orchestration view.

#### Fit to view

 Resizes the orchestration to fit in the workspace.

**Table 1.** Studio toolbar menu options. You can control the magnification level to view an orchestration by selecting one of the following options from the View option of the toolbar menu. Â

Option	Description
Zoom In	Increase the magnification level to view the orchestration.
Zoom Out	Decrease the magnification level to view the orchestration.
Zoom 100%	Returns the view of the orchestration to the normal magnification level.
View as Tree Flow or View as Flow	The View as Tree Flow option lists the activities of the orchestration in a top-to-bottom view. During run time, the flow starts at the top activity and continues downward. This view is useful for displaying large orchestrations.  The View as Flow option lists the activities of the orchestration in a left-to-right view. During run time, the flow starts at the activity on the left side of the view and continues to the right. This is the default view.
Status View	Check box that defines if a status bar is displayed at the end of the main Studio pane. The status bar shows descriptions of the menu options.

You can also right-click anywhere in the orchestration (when the orchestration is displayed as a flow) and select one of the following options from the shortcut menu:

- Zoom In
- Zoom Out
- Zoom 100%

## Procedure

1. To view a top-level scaled-down overview of the orchestration for navigating large orchestrations, Double-click the overview  icon. The top-level scaled-down overview of the orchestration is displayed in a small pane in the Orchestration tab.
2. Move the cursor into the small pane to change the section of the orchestration displayed in the larger detailed pane of the Orchestration tab.
3. Double-click in the small pane to remove the small top-level overview of the orchestration.

**Parent topic:** [Orchestrations](#)

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## Validating an orchestration

---

An orchestration must be valid (complete and correct) before you can publish it to the Integration Appliance. Use the validation feature in Studio to validate your orchestration.

### Before you begin

---

To be valid an orchestration must meet the following requirements:

- Have a starter activity or a Pick activity as the first activity. Starter activities are denoted in the Activities tab with the blue orchestration icon and a downward arrow . The first activity in each branch of the Pick activity must be a starter activity.  
Note: All starter activities are represented in Studio by the inbound icon , except for the Schedule Job activity.
- Variables must be initialized before they are used. This includes variables that are initialized in the branches of an If.. Then activity. The variable must be initialized in all branches.

### Procedure

---

1. Select the Project tab, and expand the Orchestration folder.
2. Select and open an orchestration from the Orchestration folder. A graphical representation of the orchestration is displayed in the Orchestration tab. Â
3. Validate your orchestration using one of the following options:
  - o Select Orchestration > Validate from the menu toolbar. The Validation Results dialog box is displayed.
  - o Press ALT-F8. The Validation Results dialog box is displayed.
  - o Click an orchestration in the Project tab. If the orchestration is invalid, the Validation Results popup is displayed next to the Project tab and the invalid orchestration icon is displayed next to the orchestration in the Project tabThe Validation Results dialog box lists the problem areas in the orchestration. Problems prefaced by a blue icon are informational; you will have to navigate to that area to fix the problem. Problems prefaced by a red icon are errors. Click the error message in the dialog box to open the appropriate panel to fix the error.

Validation ensures that all the basic requirements for an orchestration have been met. You must resolve all validation issues before publishing the orchestration to the Integration Appliance.

### Example

---

To validate all the orchestrations in the project complete the following steps:

1. In the Project tab, click Revalidate Project . All the orchestrations in the project are validated. If an orchestration is invalid the invalid orchestration icon is displayed next to the orchestration in the Project tab. If the orchestration is invalid, click on the orchestration to view the errors in the Validation Results list.
2. Select the Validate Project toolbar button. All the orchestrations in the project are validated. If an orchestration is invalid the invalid orchestration icon is displayed next to the orchestration in the Project tab. If the orchestration is invalid, click on the orchestration to view the errors in the Validation Results list.

### What to do next

---

Validation icons are displayed throughout the orchestration providing visual clues to potential problem areas or to provide further information.

In Studio, the following validation icons are displayed:



Click warning icons to learn what information is required to complete the configuration of the entity in the pane. For example, in an activity's checklist, the warning icon appears next the endpoint if an endpoint has not yet been specified.



Click information icons to learn details about a entity in the pane, for example why a button has been disabled.

 Checkmark icon

Checkmark icon is displayed when all the information for a entity in the pane has been specified. For example, in an activity's checklist, the checkmark icon appears next to the endpoint if a valid endpoint has been specified.

A warning icon  displays in the upper-right corner of many panes (for example, the Endpoint configuration pane). You can click this icon to toggle the warning icons ON or OFF displayed in the pane. If turned OFF, the warning icons are not displayed in the pane.

**Parent topic:** [Orchestrations](#)

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## Working with activities in an orchestration

---

You can cut, copy, and paste activities, drag activities in an orchestration and add and delete new activities.

### About this task

You can cut, copy, paste, delete, and rename activities using any of the following methods:

- Keyboard shortcuts
- Right-click an activity and select an option from the drop-down list
- Select an activity and then select an option from the Edit toolbar menu
- Select an activity and then select a toolbar button.

Keyboard shortcuts and their menu option equivalents are listed in the following table.

Table 1. Keyboard shortcuts and their menu option equivalents

Keyboard Shortcuts	Right-Click Menu Options	Toolbar Menu Options	Toolbar Buttons	Action
CTRL + X	Cut	Edit > Cut		Removes the activity and saves a copy of the activity in the clipboard that can be used later by a paste action.
CTRL + C	Copy	Edit > Copy		Saves a copy of an activity into the clipboard that can be used later by a paste action.
CTRL + V	Paste	Edit > Paste		Copies the stored activity from the clipboard into the orchestration.
Delete	Delete	Edit > Delete		Removes the activity. The activity is not saved in the clipboard.
F2	Rename	Edit > Rename		Opens a field so you can rename an activity in an orchestration.

Note: The keyboard shortcuts and menu options listed in the preceding table are only available when the orchestration is viewed as a flow and not when the orchestration is viewed as a tree. For more information, see [Viewing an Orchestration](#).

You can cut, copy, or paste activities within the same orchestration and between orchestrations in the same project.

You can drag an activity from one location in an orchestration to another location in orchestration by selecting the activity and dragging it to the new location.

You can make a copy of an activity, by selecting the activity you want to copy, hold down the CTRL key, and then drag the activity to new location. A copy of the activity is created in the new location.

Note: Drag functionality is only available when the orchestration is viewed as a flow and not when the orchestration is viewed as a tree. For more information, see [Viewing an Orchestration](#).

## Procedure

---

1. Drag an activity from the Activities tab onto any green target in the orchestration.
2. Complete the properties of the activity in the Properties pane.
3. Optional: To rename the activity, select the Edit > Rename option in the toolbar menu. The activity name field becomes active. You can also use one of the alternate methods mentioned in Table 1.

## What to do next

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To delete an activity, select the Edit > Delete option in the toolbar menu. You can also use one of the alternate methods mentioned in Table 1.

**Parent topic:** [Orchestrations](#)

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## Printing an orchestration

---

You can print an orchestration directly or view a print preview of an orchestration.

## Procedure

---

1. Select the Project tab and expand the Orchestrations folder.
2. To open an orchestration, double-click an orchestration in the Orchestrations folder. The Orchestration is displayed.
3. Optional: To view a print preview press CTRL+SHIFT+P.
4. To print the orchestration, press CTRL+P.

**Parent topic:** [Orchestrations](#)

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## Processing orchestration jobs sequentially

---

You can use the Process Orchestration Jobs Sequentially option when an orchestration contains activities that can conflict with each other when multiple instances of the orchestration are running. An instance of an orchestration is also known as an orchestration job.

## About this task

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For example, an orchestration could contain a Pick activity that contains branches for the Get Inserted Rows, Get Updated Rows, and Get Deleted Rows activities. The following steps show an example run time scenario for this orchestration with the Process Orchestration Jobs Sequentially check box not selected:

1. An insertion into the database occurs, triggering the first instance of the orchestration to be created.
2. The first instance of the orchestration starts processing the insert branch of the Pick activity.
3. Before Get Inserted Rows activity completes in the first orchestration instance, a deletion in the database occurs triggering a second instance of the orchestration to be created.
4. The second instance of the orchestration starts processing the delete branch of the Pick activity.

This is undesirable behavior because first instance of the orchestration (that is processing the Get Inserted Rows activity) should complete before the second instance of the orchestration starts to process the Get Inserted Rows activity to avoid a potential primary key exception in the database. These database actions should occur sequentially. To force the instances of the orchestration to run sequentially, select the Process Orchestration Jobs Sequentially check box for the orchestration. With this option set, the instances of the orchestration are run one at a time and conflicts, like primary key exceptions, are avoided.

Complete the following steps to set all jobs to run in a single instance check box.

Note: Selecting this option decreases the performance of the project.

## Procedure

---

1. Select the Project tab and expand the Orchestrations folder.
2. To open an orchestration, double-click an orchestration in the Orchestrations folder. The orchestration is displayed.
3. If the orchestration options are not displayed the bottom part of the orchestration tab, select Orchestration > Properties from the toolbar menu.
4. Select the Process Orchestration Jobs Sequentially check box. This option is automatically selected if the orchestration contains shared variables.

**Parent topic:** [Orchestrations](#)

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## Enabling persistence

---

The Orchestration pane contains an Enable Persistence check box that by default is selected. The setting of the Enable Persistence check box affects the way orchestration jobs are restarted after a failure.

### About this task

---

The effect of setting of the Enable Persistence check box is described by the following two options:

Enable Persistence check box is selected

During run time if an orchestration job is running and a failure occurs that causes the job to stop, when the orchestration is restarted, the original job continues processing where it stopped and no in-flight messages are lost.

Enable Persistence check box is cleared

During run time if an orchestration job is running and a failure occurs that causes the job to stop, when the orchestration is restarted, the current job does not complete and the in-flight messages are lost.

When the Enable Persistence check box is cleared the run time performance is improved.

Note:

When an orchestration that has Web Services Provide service starter activity with Transport type set to Local, referred to as sub-orchestration, then persistence setting for the main orchestration and the sub-orchestration should be same within the same project.

For example, if the persistence is enabled for the main orchestration, then it should be enabled for the sub-orchestration also. If the persistence is disabled in the main orchestration, then it should be disabled for the sub-orchestration and vice-versa.

Note:

You should enable persistence for the FTP Poll Directory activity:

- If you have an orchestration job with a FTP Poll Directory activity that is processing large input files. Otherwise, you can experience problems like "Variable 'Lotdata' is too large, please turn on persistence for this orchestration".
- If you disable persistence and have an orchestration job with a FTP Poll Directory activity with the Keep in place option selected, and during run time if a failure occurs that causes the job to stop, when the orchestration is restarted it processes the file again. The state of the job is lost and Integration Appliance does not know that it has already processed the file.

The following activities require that persistence be enabled when the Exactly Once option is selected in the Delivery Rules for the activity:

#### Database

- Poll Table
- Get Inserted Row
- Get Updated Rows
- Get Deleted Rows
- Insert Rows
- Update Rows
- Delete Rows
- Call Procedure

#### Email

- Get Email

#### FTP

- Poll Directory

#### JMS

- Subscribe Message
- Poll Message

#### MQ

- Poll Message

#### SAP

- Receive IDOC
- Send IDOC

#### SFDC

- Poll Deleted Objects
- Poll Updated Objects

#### Domino®

- Get Created Documents
- Get Deleted Documents
- Get Updated Documents

## Procedure

---

1. To change the setting of the Enable Persistence check box, select Orchestration > Properties from the toolbar menu. The Orchestration pane is displayed.
2. Select Enable Persistence check box.

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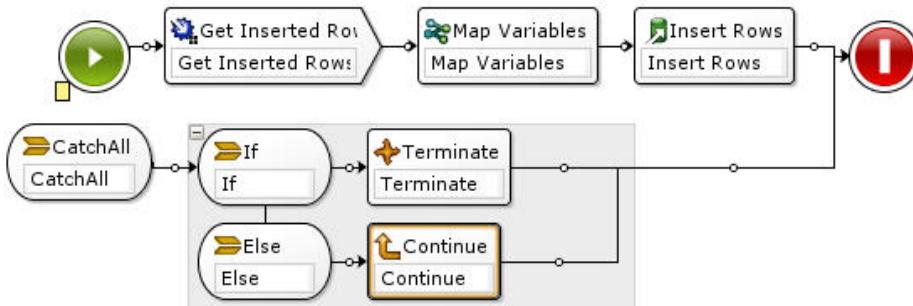
## Adding a global exception handler to an orchestration

---

During run time if any of the activities of the orchestration throws an exception, and a global exception handler has been enabled, the global CatchAll branch is run.

## About this task

The following figure shows an example orchestration:



In this example, if either the Database Get Inserted or the Database Insert Rows activities fail and throw an exception, the If..Then activity in the CatchAll branch is run.

## Procedure

1. Right-click the start icon of the orchestration and from the menu, and select the Add CatchAll Branch option. The CatchAll branch is added to the orchestration and the following variables are automatically created:
  - o faultName - During run time, the faultName variable contains the name of the exception thrown by an activity in the orchestration.
  - o faultData - During run time, the faultData variable contains the error message associated with the exception. This additional information is only currently returned for the Web Services activities. For Web Services activities, the faultData variable contains the fault.
  - o faultInfo - During run time, the faultInfo variable returns the following nodes:
    - name - During run time, the faultInfo/name node contains the name of the exception thrown by an activity in the orchestration. The faultInfo/name node is an xsd:QName type.
    - message - During run time, the faultInfo/message node contains the error message associated with the exception. The faultInfo/message node is an xsd:string type.
    - activityId - During run time, the faultInfo/activityId node contains the activity ID that uniquely identifies the activity where the exception occurred. The faultInfo/activityId node is an xsd:int type.
    - activityName - During run time, the faultInfo/activityName node contains the activity name where the exception occurred. The faultInfo/activityName node is an xsd:string type.
    - faultTime - During run time, the faultInfo/faultTime node contains the time the error occurred. The faultInfo/faultTime node is an xsd:dateTime type.

Note: The exception name returned by an activity in the faultName variable and the faultInfo/name node may change in a future release.
2. Configure the CatchAll branch by dragging activities from the Activities tab to the CatchAll branch, as shown in the preceding figure.

## Results

Note: The scope of the faultName, faultData, and faultInfo variables is limited to the CatchAll branch. This scope limitation means that the value of these variables is only guaranteed to be valid within the CatchAll branch. For example, if you add a If...Then activity that tests the value of the faultName variable, the If...Then activity must be placed inside the CatchAll branch as shown in the preceding figure.

**Parent topic:** [Orchestrations](#)

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## Saving an image of an orchestration

---

You can save a graphical image of the current orchestration as a .jpg file.

### Procedure

---

1. To create, or open, an existing orchestration double-click an orchestration in the Orchestrations folder of the Project tab. A graphical representation of the orchestration is displayed.
2. Click an activity in the orchestration and select the Orchestration > Save as an Image option from the Studio toolbar menu. The Save Orchestration Flow to an Image dialog box is displayed.
3. Browse for a directory location.
4. In the File Name field, enter the complete name of the file including the jpg extension. For example: *ProcessPO.jpg*.
5. Click Save. The image file is saved to the file system.

**Parent topic:** [Orchestrations](#)

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## Connection Activities

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- [Creating an endpoint](#)

You can create an endpoint from either the Activities tab or the Project tab. Use the Activities tab when you are in the process of building an orchestration and want to use the endpoint straight away. Use the Project tab to configure a set of endpoints for later use.

- [Downloading plug-in connectors](#)

Plug-in connectors are additional connectors that you can download into Studio and access like a built-in connector. When you download a plug-in connector, the connector is displayed in the Activities tab with all the other built-in connectors. You can now drag the plug-in connector activities into the Studio workspace to create an orchestration.

- [Uninstalling Plug-in Connectors](#)

Plug-in connectors are additional connectors that you can download into Studio and access like a built-in connector. They can be uninstalled from the same location as they are downloaded.

- [Using an existing endpoint](#)

You can define an endpoint and reuse it for connection activities within the same project.

- [Polling interval behavior](#)

Some starter activities poll for a change in state at the specified polling interval. Once the poll occurs and the change of state is detected, an orchestration job is started to start processing.

- [Using the Shift-JIS encoding](#)

During run time, if the Shift-JIS encoding is specified, the Integration Appliance will not convert some of the double-byte characters.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_connectionactivities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_connectionactivities.html)

# Creating an endpoint

---

You can create an endpoint from either the Activities tab or the Project tab. Use the Activities tab when you are in the process of building an orchestration and want to use the endpoint straight away. Use the Project tab to configure a set of endpoints for later use.

## Creating an endpoint from the Activities tab

---

1. Drag a connection activity from the Activities tab to the orchestration. The **Checklist** is displayed in the lower left side of the pane. The summary information is displayed, on the right.
2. By default, the Activity Name displayed is the name of the connection activity; for example, `FTP Poll Directory`. To change the name, enter the new name in the field.
3. Select `Pick Endpoint` from the **Checklist**. The endpoint pane is displayed to the right.
4. Click `New`. The Create Endpoint dialog is displayed.

Note: The dialog contents vary depending on what type of connection activity you create.

## Creating an endpoint by right-clicking in the Project tab

---

1. Right-click on the endpoints folder in the Project tab.
2. Select `Create Endpoint > EndpointType`, where `EndpointType` is type of endpoint. A new endpoint is created and displayed under the endpoints folder in the Project tab with a default name. An Endpoint tab is displayed in the main Studio pane.
3. Change the default name.
4. Press `Return`.
5. Configure the endpoint by specifying values in the Endpoint tab.

Note: The fields in the tab are identical to the fields displayed for the same type of endpoint created from the Activities tab.

## Creating an endpoint by clicking the New Endpoint icon in the Project tab

---

1. Click the Project tab.
2. In the Project tab, click the New Endpoint icon. A list with all types of endpoints is displayed.
3. Select an Endpoint type.
4. Change the default name.
5. Press `Return`.

## Creating an endpoint by right-clicking in the Project tab

---

1. Right-click on the endpoints folder in the Project tab.
2. Select `Create Endpoint EndpointType`, where `EndpointType` is type of endpoint. A new endpoint is created and displayed under the endpoints folder in the Project tab with a default name. An Endpoint tab is displayed in the main Studio pane.
3. Change the default name.
4. Press `Return`.
5. Configure the endpoint by specifying values in the Endpoint tab.

Note: The fields in the tab are identical to the fields displayed for the same type of endpoint created from the Activities tab.

**Parent topic:** [Connection Activities](#)

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# Downloading plug-in connectors

---

Plug-in connectors are additional connectors that you can download into Studio and access like a built-in connector. When you download a plug-in connector, the connector is displayed in the Activities tab with all the other built-in connectors. You can now drag the plug-in connector activities into the Studio workspace to create an orchestration.

## About this task

---

When you download plug-in connectors you can view available and installed plug-in connectors. Click the Available tab to view the names and versions of all the plug-in connectors that are available for download. Click the Installed tab to view the names and versions of all the plug-in connectors that you have already downloaded and installed on Studio. You can check for updates to these lists on startup or at one of the following intervals: daily, weekly, on alternative weeks, monthly, or never. Select the update interval and click Check Now to refresh the lists.

To download a plug-in connector complete the following steps:

## Procedure

---

1. Select Solutions > Plugin Connectors. The Login window is displayed.  
Note: If you are already logged into the IBM® Cast Iron® services, the Plugin Connector window is displayed and you can omit steps 2 and 3.
2. Specify the user name and password that IBM Support has provided you with. If you do not have login information, request a login from IBM Support.
3. Click OK. The Plugin Connectors window is displayed.
4. In the Available tab, select a connector.
5. Click Install. The plug-in connector is displayed in the Installed tab.

**Parent topic:** [Connection Activities](#)

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## Uninstalling Plug-in Connectors

---

Plug-in connectors are additional connectors that you can download into Studio and access like a built-in connector. They can be uninstalled from the same location as they are downloaded.

## Procedure

---

1. Select Solutions > Plugin Connectors. The Login window is displayed.  
Note: If you are already logged into the IBM® Cast Iron® services, the Plugin Connector window is displayed and you can omit steps 2 and 3.
2. Specify the user name and password that IBM Support has provided you with. If you do not have login information, request a login from IBM Support.
3. Click OK. The Plugin Connectors window is displayed.
4. In the Installed tab, select a connector.
5. Click Uninstall. The plug-in connector is no longer displayed in the Studio Activities tab.

**Parent topic:** [Connection Activities](#)

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## Using an existing endpoint

---

You can define an endpoint and reuse it for connection activities within the same project.

## Procedure

1. Select the connection activity from within the orchestration.
2. Click Pick Endpoint from the Checklist.
3. Click Browse. The Project Explorer dialog box displays.
4. Select an endpoint from the list and click OK. The endpoint information is displayed.

**Parent topic:** [Connection Activities](#)

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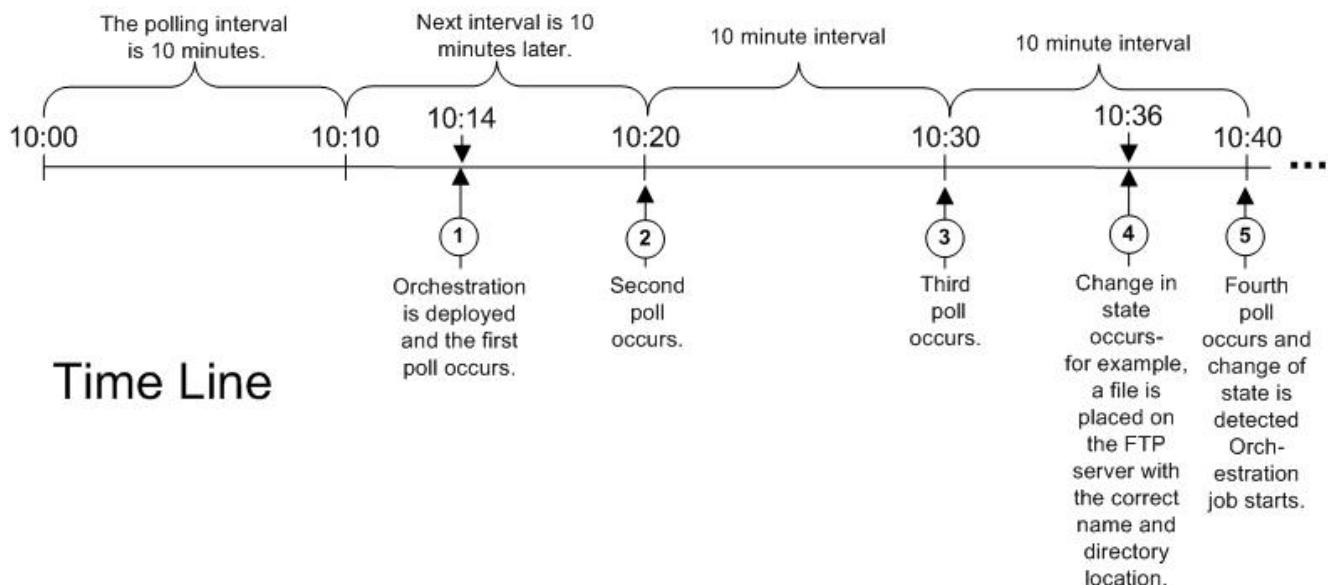
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/conn\\_Using\\_an\\_Existing\\_Endpoint.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/conn_Using_an_Existing_Endpoint.html)

## Polling interval behavior

Some starter activities poll for a change in state at the specified polling interval. Once the poll occurs and the change of state is detected, an orchestration job is started to start processing.

For example, during run time, the **FTP Poll Directory** activity polls for the existence of the specified file or files on the FTP server at the specified location and polling interval.

You specify the polling interval for the starter activity in the **Delivery Rules** task of the **Checklist** for the activity. The polling interval determines how often a poll occurs to check for a change in state. Once an orchestration that starts with a polling starter activity is published and deployed, the first poll occurs when the orchestration is deployed and the second poll occurs at the next time interval in the polling schedule. For example, if the polling interval is 10 minutes and the orchestration is deployed at 10:14 PM, the first poll occurs at 10:14 PM and the second poll occurs at 10:20 PM, which is the next interval of 10 minutes, as shown in the following figure:



The intervals start at the beginning of the hour, 10:00 PM in this example.

Note: When specifying the polling interview in days, the Integration Appliance uses UTC time zone and not the local time zone to determine when to poll. When the Polling Interval is set to days in the **Delivery Rules** task, the Integration Appliance polls at the start of the day (00:00) using the UTC time zone and not the local time zone specified for the Integration Appliance. For example, if your Integration Appliance is set to Pacific Standard Time (PST) which is 8 hours behind Coordinated Universal Time (UTC) and the Polling Interval was set to 1 day, the poll occurs at 00:00 in the UTC time zone which is equivalent to 4:00 PM (16:00 in 24 hour time) in the PST time zone.

The following starter activities poll for a change in state:

- Database Get Inserted Rows
- Database Get Updated Rows
- Database Get Deleted Rows
- Database Poll Table
- Get Email
- FTP Poll Directory
- MQ Poll Queue

**Parent topic:** [Connection Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Polling\\_Interval\\_Behavior.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Polling_Interval_Behavior.html)

## Using the Shift-JIS encoding

---

During run time, if the Shift-JIS encoding is specified, the Integration Appliance will not convert some of the double-byte characters.

### About this task

The Integration Appliance does not convert the double-byte characters listed in the following table: ^

Hexadecimal Shift-JIS Character Code	Hexadecimal Unicode Character Code	Description
0x815C	U+2014	Em Dash
0x8160	U+301C	Wave Dash
0x8161	U+2016	Double Vertical Line
0x817C	U+2212	Minus Sign
0x8191	U+00A2	Cent Sign
0x8192	U+00A3	Pound Sign
0x81CA	U+00AC	Not Sign

Use the CP943 encoding instead of the Shift-JIS encoding.

**Parent topic:** [Connection Activities](#)

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## Template Integration Process (TIPs)

---

- [About the Template Integration Project \(TIP\) Configuration Editor](#)

Use the TIP Configuration Editor to drag objects from Studio into the TIP Configuration Editor workspace to create and modify Template Integration Projects (TIPs), which you can upload to the Cast Iron® solutions repository for other users to access.

- [Creating a Template Integration Project \(TIP\)](#)  
You can create, and modify, Template Integration Projects (TIPs) using the TIP Configuration Editor to drag objects from Studio into the TIP Configuration Editor.
- [Modifying a Template Integration Project \(TIP\)](#)  
You can modify a Template Integration Project (TIP) from the Studio menu.
- [Verifying a Template Integration Project \(TIP\)](#)  
You can verify a Template Integration Project (TIP) from the Studio menu using the same process as for verifying an orchestration.
- [Searching for Template Integration Projects \(TIPs\)](#)  
Template Integration Projects (TIPs) are stored in the Cast Iron solutions repository. Through the Configuration Wizard, TIPs guide you through the configuration steps for an integration scenario. TIPs can be downloaded to your local machine. The login window is pre-populated with the User Name and Password to make it easier for you to download the TIPs, without registration.
- [Rating and Reviewing Template Integration Projects \(TIPs\)](#)  
You can rate and provide a review for all Template Integration Projects (TIP) that you download.
- [Uploading Template Integration Projects \(TIPs\) to the Cast Iron solutions repository](#)  
You can upload Template Integration Projects (TIPs) that you have created to the Cast Iron solutions repository.

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## About the Template Integration Project (TIP) Configuration Editor

---

Use the TIP Configuration Editor to drag objects from Studio into the TIP Configuration Editor workspace to create and modify Template Integration Projects (TIPs), which you can upload to the Cast Iron® solutions repository for other users to access.

When you have created a TIP, you can use the Configuration Wizard to configure the project for your integration scenario.

When you close the TIP Configuration Editor all changes are saved. However, if you close the project in Studio before you save your changes in the TIP Configuration Editor, the changes you made in the TIP Configuration Editor are not saved.

You can launch the TIP Configuration Editor from the Studio menu. Select Tools > TIP Configuration Editor.

## TIP Configuration Editor Workspace

---

The TIP Configuration Editor workspace contains the Edit and Preview tabs.

In the Edit tab, you can use the interface to build the pages for each step in the TIP. You can use this interface to drag images directly into the Description and Summary Content fields. By selecting the Show Markup option at the bottom of the tab, you can edit the underlying HTML source for the page.

You can view the page for the TIP step in the Configuration Wizard use the Preview option.

## TIP Configuration Editor Modes

---

The TIP Configuration Editor has a compact mode, which shows only a panel with the Steps list. Click the compact mode icon, in the upper right corner of the Steps list, to collapse or expand the TIP Configuration Editor. When you select the Sync Selection option at the end of the Steps list, the Studio application is opened and automatically navigates to the entity corresponding to the step in the TIP Configuration Editor that you are editing.

**Parent topic:** [Template Integration Process \(TIPs\)](#)

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#### [Feedback | Notices](#)

## Creating a Template Integration Project (TIP)

You can create, and modify, Template Integration Projects (TIPs) using the TIP Configuration Editor to drag objects from Studio into the TIP Configuration Editor.

### About this task

You can upload to the Cast Iron® solutions repository for other users to access. After using the TIP Configuration Editor to create a TIP, you can use the Configuration Wizard to configure the project for your integration scenario.

Important: Only the creator of a TIP can modify the TIP. However, after you upload your TIP to the Cast Iron solutions repository and it is certified by IBM®, you no longer have the ability to delete your TIP from the Cast Iron solutions repository.

### Procedure

1. From the Studio menu, select Tools > TIP Configuration Editor. The TIP Configuration Editor window shows.
2. Define the steps for the TIP using one of the following methods:

Adding one of the TIP Configuration Editor's predefined step types:

- a. Click Add. The Select Type window opens.
- b. Select the appropriate option and click OK. The new step is displayed beneath the highlighted step in the Steps list. You can shuffle the order of the steps by selecting the step and moving it to the appropriate locations on the list.

Dragging a Studio object into the TIP Configuration Editor:

- a. Select a Studio object.
- b. Drag the object to the appropriate position on the Steps list. You can shuffle the order of the list by selecting a step and moving it to the required position on the list.
- c. Optional: You can drag images directly into the Description and Summary Content fields of the various steps.

Deleting a step:

- a. Select a step in the Steps list. Your selection is indicated by bold type
- b. Click Delete.

Renaming a step:

- a. Double-click a step in the Steps list. The step name becomes an editable field.
- b. Enter the required name of the step.

Or

- a. Select a step in the Steps list. Your selection is indicated by bold type.
- b. In the Edit tab, edit the value in the Name field.

3. In the Edit tab, define properties for each step:

- a. Select a step in the Steps list. Your selection is indicated by bold type. The Edit tab opens a form showing the properties for the selected step.
- b. Optional: Select the Show Markup option to view the HTML markup for the Description and Summary Content sections of the form. Right-click these sections to see a list of available HTML styles.

In the HTML source view, you can add images to the Description and Summary Content fields by dropping an image into either field. The image is converted to a file with a .b64 extension, which can be referenced as a relative path.

For example: ``.

Referencing images outside of the project structure is supported by using fully-qualified HTTP paths. For example: ``

Note: Selecting the Show Markup option only shows the HTML markup for the selected step.

- c. Complete the form.
- d. Preview the results in the Preview tab.

4. Click Close. The TIP Configuration Editor saves all changes and closes.

**Parent topic:** [Template Integration Process \(TIPs\)](#)

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## Modifying a Template Integration Project (TIP)

---

You can modify a Template Integration Project (TIP) from the Studio menu.

### About this task

---

### Procedure

---

1. From the Studio menu, select Tools > TIP Configuration Editor. The TIP Configuration Editor window is opened.
2. Update the appropriate step or configuration.
3. Click Close. The TIP Configuration Editor saves all changes and closes.

**Parent topic:** [Template Integration Process \(TIPs\)](#)

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## Verifying a Template Integration Project (TIP)

---

You can verify a Template Integration Project (TIP) from the Studio menu using the same process as for verifying an orchestration.

### About this task

---

### Procedure

---

1. From the Studio menu, select Solutions > TIP Configuration Editor. The Configuration Wizard is displayed.
2. If the TIP does not have a Verify Orchestration step, add one before the Finish step. To add a Verify Orchestration step, select Tools > Edit Configuration Wizard and add a Verify Orchestration step.
3. Click Next to step through the orchestration.
4. When you reach the Verify Orchestration step, click Start Orchestration.

**Parent topic:** [Template Integration Process \(TIPs\)](#)

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# Searching for Template Integration Projects (TIPs)

---

Template Integration Projects (TIPs) are stored in the Cast Iron® solutions repository. Through the Configuration Wizard, TIPs guide you through the configuration steps for an integration scenario. TIPs can be downloaded to your local machine. The login window is pre-populated with the User Name and Password to make it easier for you to download the TIPs, without registration.

## Procedure

---

1. From the Solutions menu, select Search For TIPs. The Login window is displayed with the pre-populated User Name and Password. These credentials have the access privilege only to download TIPs.  
Note: You can also log on by clicking the Login link present on the right-hand side, near the memory bar.
2. If you already have the credentials to log on, specify the user name and password. You can specify default login settings for the central repository in the Preferences dialog.
3. Click OK. The Search window is displayed and a confirmation message displays at the end of the main Studio window.
4. In the Search window, choose Keywords, Filter, or My TIPs as the method by which you want to search for TIPs.
  - o If you select the Keywords search option, the Keywords field is displayed.
    - a. Enter a search keyword.
    - b. Click Go. The results are displayed in the Results table and a "Searching ... completed" message is displayed at the end of the Search window. For example, if you enter the keyword USECASES, all TIPs under the USECASES category in the Cast Iron solutions repository are returned.
  - o If you select Filter search option, the filter options: Source Endpoint, Target Endpoint, Integration Patterns, and Searchable Keywords are displayed.
    - a. You must specify a value for at least one filter option. The options lists provide valid values.
    - b. Click Query. The results are displayed in the Results table and a "Searching ... completed" message is displayed at the end of the Search window.
  - o If you select My TIPs, all TIPs that you have created are displayed in the Results table.
5. In the Results table, select a TIP. The details for the project are displayed in the details section.
6. Optional: You can rate the TIP that you have selected.
  - a. Click the Edit Review link. The Publish Review window is displayed.
  - b. Move the slider until the appropriate number of stars are highlighted. Rate the TIP on a scale between 1-5, 5 being the highest rating.
  - c. In the My Title field, add a brief description for your review.
  - d. In the My Summary field, add more details about your review of the project.
  - e. Click OK. Studio submits the review to the Cast Iron solutions repository.
7. In the Search window, click Download. The Select directory where to save the TIP window is displayed.
8. Specify the download directory and click Open. The project is saved to the directory you specified and Studio opens the Configuration Wizard for the project.

**Parent topic:** [Working with projects](#)

**Parent topic:** [Template Integration Process \(TIPs\)](#)

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## Feedback | Notices

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# Rating and Reviewing Template Integration Projects (TIPs)

---

You can rate and provide a review for all Template Integration Projects (TIP) that you download.

## About this task

---

Ratings are given on a scale of 1-5, where 5 is the highest rating. When you submit your rating and review for a TIP, Studio uploads the information to the Cast Iron® solutions repository. Your rating is combined with any other ratings that have been submitted by other reviewers and the average is displayed in the Details pane of the specific TIP.

You can rate and review TIPs using the Configuration Wizard to complete TIP configurations or by accessing the Publish Review dialog box.

## Procedure

---

When you open a TIP in the Configuration Wizard, the last step provides an opportunity to rate and review the TIP.

1. Select Solutions > Start Configuration Wizard. The Configuration Wizard opens.
2. Complete each step of the wizard or just click Finish to go directly to the rating and review page.
3. In the rating and review page, move the My Rating slider until the appropriate number of stars are highlighted. Ratings are on a scale between 1 and 5; 1 is the lowest, and 5 is the highest rating.
4. In the My Title field, add a brief description for your review.
5. In the My Summary field, add more details about your review of the project.
6. Click Submit Review. Studio submits the review to the Cast Iron solutions repository.
7. Click Close.

- [Rating and Reviewing Template Integration Projects \(TIPs\) using the Publish Review Dialog box](#)

You can rate and provide a review for all Template Integration Projects (TIPs) that you download.

**Parent topic:** [Template Integration Process \(TIPs\)](#)

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### Feedback | Notices

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## Rating and Reviewing Template Integration Projects (TIPs) using the Publish Review Dialog box

---

You can rate and provide a review for all Template Integration Projects (TIPs) that you download.

### About this task

---

You can rate and review a TIP without having to complete the configuration steps listed in the Configuration Wizard, by using the Publish Review dialog box.

## Procedure

---

1. In Studio, select Solutions > Create Review. The Publish Review window opens.
2. Move the My Rating slider until the appropriate number of stars is highlighted. Ratings are on a scale between 1 and 5; 1 is the lowest, and 5 is the highest rating.
3. In the My Title field, add a brief description for your review.
4. In the My Summary field, add more details about your review of the project.
5. Click OK. Studio submits the review to the Cast Iron® solutions repository.

### What to do next

---

You can edit a review by click the Edit Review link. The Publish Review window opens. Complete steps 3-5 as described in the preceding procedure.

**Parent topic:** [Rating and Reviewing Template Integration Projects \(TIPs\)](#)

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### Feedback | Notices

 Last updated: Wednesday, 15 June 2016

## Uploading Template Integration Projects (TIPs) to the Cast Iron solutions repository

---

You can upload Template Integration Projects (TIPs) that you have created to the Cast Iron® solutions repository.

### Procedure

---

1. From the Studio menu, select Solutions > Upload Project to Repository. The Upload Project Wizard opens.
2. Enter the following summary information:

<b>Option</b>	<b>Description</b>
<b>Parameter</b>	Description
<b>Name</b>	Name of TIP.
<b>Path</b>	Specify the location in the Cast Iron solutions repository to which Studio uploads the TIP.
<b>Category</b>	Specify the type of TIP created: <ul style="list-style-type: none"> <li>o Usecases</li> <li>o Best Practices</li> <li>o Utilities</li> <li>o General</li> </ul>
<b>Description</b>	Enter a brief description of the TIP.

3. Click Next.
4. Enter source and target endpoint information for the project:

<b>Option</b>	<b>Description</b>
<b>Source Endpoint Parameter</b>	Description
<b>Name</b>	Name of source endpoint.
<b>Description</b>	Enter a brief description of the source endpoint.
<b>Version</b>	Specify a version number for the source endpoint configuration.
<b>Option</b>	<b>Description</b>
<b>Target Endpoint Parameter</b>	Description
<b>Name</b>	Name of target endpoint.
<b>Description</b>	Enter a brief description of the target endpoint.
<b>Version</b>	Specify the version number of the target endpoint configuration.

5. Click Next.
6. Enter details about project patterns:

<b>Option</b>	<b>Description</b>
<b>Parameters</b>	Description
<b>Name/Description</b>	Name/Value pair for project patterns  Click the appropriate field to specify the name and description for the project pattern.  Click Add to specify additional patterns.  Click Delete to remove specified patterns.
<b>Searchable Tags</b>	You can use this string value later to search for the project.
<b>Creator</b>	Identify the person or entity that created the project. For example: John Smith or IBM®.
<b>Version</b>	Specify the version of the TIP you are uploading to the Cast Iron solutions repository.

7. Click Finished. Studio uploads the TIP to the Cast Iron solutions repository.

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## Transform Activities

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- [Map Variables Activity](#)

You can create a new Map Variables activity in an orchestration.

- [Read MIME activity](#)

During run time, the **Read MIME** activity reads the MIME header and the body of the message. The **Read MIME** activity breaks up the attachments contained in the body of the message and places the result into the parts XML output parameter, as shown in the figure below.

- [Write MIME activity](#)

During run time the **Write MIME** activity constructs a MIME header and the body of the message from multiple attachments contained in the parts XML input parameter and optionally the **mimeheader** input parameter, as shown in the figure below.

- [Read XML activity](#)

The **Read XML** activity takes an XML document and parses it to a defined schema. XML data is returned from this activity as the output parameter and the data can be used in subsequent activities.

- [Write XML activity](#)

The **Write XML** activity takes a complex (XML) variable and outputs a string in the XML format containing the data held in the complex variable. This string can then be written to a file or a database.

- [Validate XML activity](#)

During run time, the **Validate XML** activity determines if the input XML data is valid to the specified XML Schema or WSDL.

- [Read JSON activity](#)

The **Read JSON** activity takes a JSON or XML message and parses it to a defined schema to generate an output structure that can be used by the orchestration. At runtime this activity parses the JSON message and generates equivalent XML that can be mapped to other Studio activities.

- [Write JSON activity](#)

The **Write JSON** activity takes a structure equivalent to JSON as input and outputs a string in the JSON format containing the data held in the complex variable. This string can then be written to a file or posted using HTTP.

- [Validate JSON activity](#)

During run time, the **Validate JSON** activity determines if the input JSON or XML data is valid to the specified XML schema.

- [Read Flat File activity](#)

The Read Flat File activity converts flat file data (non-XML data) to XML data by applying the specified Flat File Schema. XML data is returned from this activity as the output parameter.

- [Write Flat File activity](#)

The Write Flat File activity converts data from an orchestration into flat file data (non-XML data) that is valid to the specified Flat File Schema.

- [Overview of OData Activities](#)

- [Apply XSLT activity](#)

You can use the Apply XSLT activity to transform XML data, stored in one XML variable, to XML data, stored in another XML variable, using the specified XSLT stylesheet.

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# Map Variables Activity

---

You can create a new Map Variables activity in an orchestration.

## About this task

---

Using the Map Variables activity you can transform and initialize variables. You can transform the data from one or more source variables to the data stored in one or more destination variables. For more information see [About Maps](#).

You can create a new Map Variables activity by completing one of the following procedures:

## Procedure

---

1. Open or [create an orchestration](#)
2. If the activity is mapping variables that conform to a particular XML Schema or DTD, upload the XML Schema or DTD file into your project using [Uploading Files into a Project](#).
3. Open the Activities tab.
4. Drag the Map Variables activity from the Activities tab onto the orchestration.
5. If not already selected, click Design The Mapping Editor is displayed in the lower part of the pane.
6. [Add variables](#) to the From Orchestration pane.
7. [Add variables](#) to the To Orchestration pane.
8. Drag a source node from the From Orchestration pane to a destination node in the To Orchestration pane. If the mapping is valid, a link (line) displays from the source node to the destination node, indicating that a mapping rule has been established. Repeat this step until all the required nodes have been mapped.
9. If possible, test your mappings to ensure that the output is what you expect. For more information, see [Testing maps](#).

Note: The Extensible Markup Language (XML) specification prohibits the use of non-printing unicode control characters. The accepted character range is:

```
Char      :=      #x9 | #xA | #xD | [#x20-#xD7FF] | [#xE000-#xFFFF] | [#x10000-#x10FFFF]
```

Note: You can replace a variable used in the map without changing the links of the map. For more information, see [Replacing a Variable used in a Map](#)

**Parent topic:** [Transform Activities](#)

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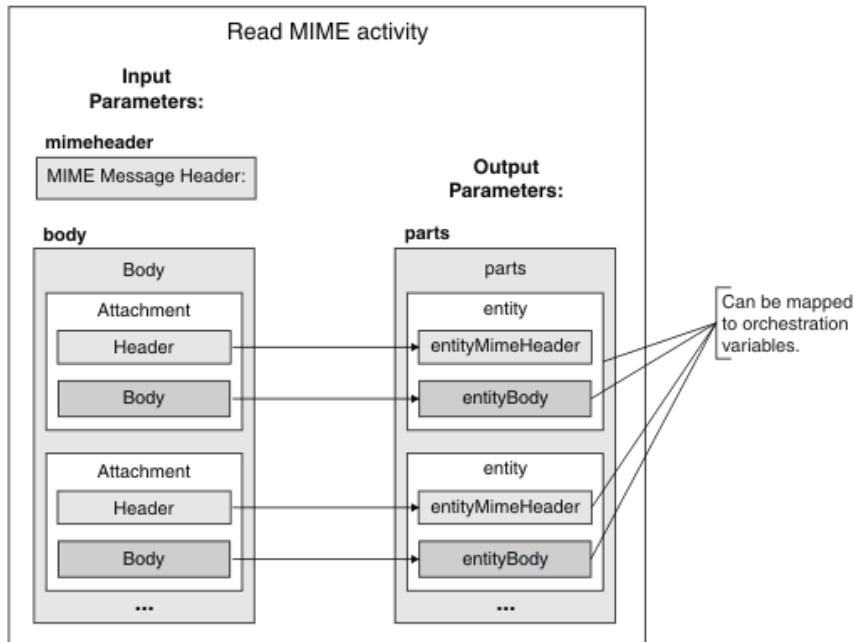
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Map\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Map_Activity.html)

## Read MIME activity

---

During run time, the **Read MIME** activity reads the MIME header and the body of the message. The **Read MIME** activity breaks up the attachments contained in the body of the message and places the result into the parts XML output parameter, as shown in the figure below.

For example, an orchestration could contain a **Get Email** activity, that during run time gets an email message from a POP3 endpoint and places the resulting email message in two variables, one XML variable that contains the mail header and another string variable that contains the body of the email message. The next activity in the orchestration could be a **Read MIME** activity that maps the contents of the mail header and the body variables to its input parameters. If the mail message contains attachments, the **Read MIME** activity then breaks up the attachments contained in the body of the message and places the result into the parts XML output parameter.



- [Adding a Read MIME activity to an orchestration](#)

Perform the steps in this section to add a **Read MIME** activity to an orchestration.

- [Mapping the input of the activity](#)

In this task, you map the XML variable containing the MIME header part of the mail header and the string variable containing the body of the message to the mimeheader and body input parameters of the **Read MIME** activity, respectively. Variables must be mapped to the mime header and body input parameters—both input parameters are required. The mime header input parameter is of type XML and the body input parameter is of type string.

- [Mapping the output to an activity](#)

In this task, you map the elements of the parts XML output parameter to variable(s).

**Parent topic:** [Transform Activities](#)

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## Adding a Read MIME activity to an orchestration

Perform the steps in this section to add a **Read MIME** activity to an orchestration.

### Procedure

1. Create or open an orchestration. A graphical representation of the orchestration displays.
2. Select the **Activities** tab and expand the **Transform** folder.
3. Drag the **Read MIME** activity onto the orchestration. Place the **Read MIME** activity after the activity that gets the message, for example a Get Email activity.
4. Select the **Read MIME** activity and configure it as described in the next section.

**Parent topic:** [Read MIME activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Add\\_Read\\_MIME\\_to\\_Orchestration.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Add_Read_MIME_to_Orchestration.html)

## Mapping the input of the activity

In this task, you map the XML variable containing the MIME header part of the mail header and the string variable containing the body of the message to the mimeheader and body input parameters of the **Read MIME** activity, respectively. Variables must be mapped to the mime header and body input parameters—both input parameters are required. The mime header input parameter is of type XML and the body input parameter is of type string.

### About this task

The following table defines the elements in the mimeheader input parameter:

Table 1.

Element Name	Default
mimeVersion	Currently not used.
contentType/mainType	Currently not used. The <b>Read MIME</b> activity determines if the message is multipart or not by parsing the message using the specified boundary delimiter
contentType/subType	Currently not used.
contentType charset	Currently not used.
contentType/attribute/name	The attribute element contains a set of attributes as name/value pairs. You can specify the <b>boundary</b> attribute that specifies the <b>boundary</b> delimiter between the multipart entities of the message. If you specify the <b>boundary</b> attribute, it overrides the default <b>boundary</b> set in the message itself. If no <b>boundary</b> attribute is specified in the message itself or using the attribute element, an exception is thrown during run time.
contentType/attribute/value	Currently not used.
contentTransferEncoding	Currently not used.
otherMimeTypeHeaders	Currently not used.

The message body can contain one or more MIME parts separated by the boundary value specified in the **contentType/attribute** element of the mimeheader input parameter. Each part contains a MIME header that describes various attributes of the associated part body. How the individual part is parsed depends on the values assigned to the following parameters in the entityMimeType of the entity body:

- Content-Type header
- Charset attribute within the Content-Type header
- Content-Transfer-Encoding

How the part body is parsed depends on the settings of Content-Transfer-Encoding and Content-Type:

Content-Type is equal to "text":

- If the Content-Type is "text" and the Content-Transfer-Encoding is "7-bit" or "8-bit" or "binary", the part body is converted to an UTF8 encoded string and copied into the **entityBody** element of the **parts** output parameter.
- If the Content-Type is "text" and the Content-Transfer-Encoding is "quoted-printable", the part body is quoted-printable decoded, converted to an UTF8 encoded string based on the charset attribute and copied into the **entityBody** element of the **parts** output parameter.
- If the Content-Type is "text" and the Content-Transfer-Encoding is "base64", the part body is base64 decoded, converted to an UTF8 encoded string based on the charset attribute and copied into the **entityBody** element of the **parts** output parameter.

If not explicitly specified in the part MIME header, charset defaults to UTF8. The only exception to this default behavior is when the Content-Disposition is equal to "attachment" and the Content-Type is equal to "text." In this case, the part is not be treated as text since the charset of the data cannot be known. In addition, the Content-Transfer-Encoding is set to "binary."

Content-Type is not equal to â€œtext:â€

- If the Content-Type is not equal to â€œtextâ€ and the Content-Transfer-Encoding is â€œ7bitâ€/â€œ8bitâ€ or â€œbinary,â€ the part body is converted to an UTF8 encoded string and copied into the **entityBody** element of the **parts** output parameter.
- If the Content-Type is not equal to â€œtextâ€ and the Content-Transfer-Encoding is â€œquoted-printable,â€ the part body is quoted-printable decoded, base64 encoded, and copied into the **entityBody** element of the **parts** output parameter.
- If the Content-Type is not equal to â€œtextâ€ and the Content-Transfer-Encoding is â€œbase64,â€ the part body is copied as is (base64 data) into the **entityBody** element of the **parts** output parameter.

**Parent topic:** [Read MIME activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Map\\_Activity\\_Input\\_Read\\_MIME.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Map_Activity_Input_Read_MIME.html)

## Mapping the output to an activity

---

In this task, you map the elements of the parts XML output parameter to variable(s).

The entity/entityBody element of the parts output parameter contains the body and the attachments of the mail message. To access the body and the attachments of the mail message, you must iterate through the instances of the entity element using the For Each or While Loop activities

The order of the attachments and the body in the entity element depend on the email client that sent the message and the type of message (either plain text or HTML). For example, for a plain text email message sent from a Microsoft Outlook client, the parts output parameter consists of the following entity elements:

- The first **entityBody** element contains the body of the message.
- If an attachment was included in the message, the second **entityBody** element contains the first attachment.
- If a second attachment was included in the message, the third entityBody element contains the second attachment.

...and so on with the rest of the attachments.

You may need to decode the attachments before parsing the contents of the attachment. For example, an attachment that is encoded with the base64 encoding must be decoded before the contents of the attachment can be parsed by the Read Flat File activity. Another attachment might be text and therefore can be parsed without decoding.

Note: The Email and MIME activities can only process 8-bit or binary data using the UTF8 charset. Only MIME 1.0 compliant email messages are supported. The **Read MIME** activity can only parse email messages that have come from a MIME 1.0 compliant Email Server. If the message you are parsing in the **Read MIME** activity does not come from the Get Email activity but from another activity such as the HTTP Receive Request activity, you must create a Flat File Schema to parse the MIME header from the payload.

**Parent topic:** [Read MIME activity](#)

**Related concepts:**

[Read MIME activity](#)

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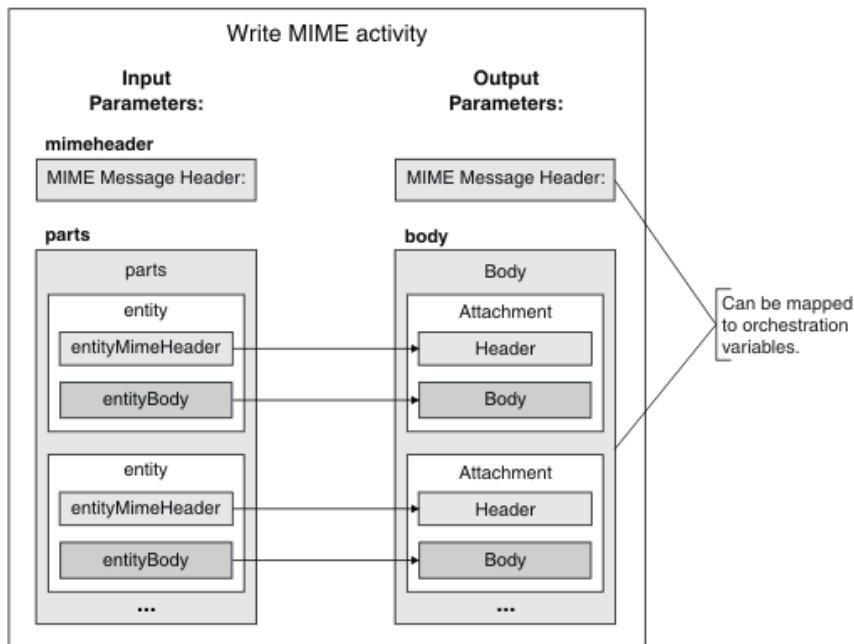
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Map\\_Activity\\_Output\\_Read\\_MIME.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Map_Activity_Output_Read_MIME.html)

## Write MIME activity

---

During run time the **Write MIME** activity constructs a MIME header and the body of the message from multiple attachments contained in the parts XML input parameter and optionally the **mimeheader** input parameter, as shown in the figure below.

For example, an orchestration could contain a **Write MIME** activity, that during run time constructs a MIME header and a body of a message and places the result in two orchestration variables. The orchestration then invokes a **Send Email** activity that takes these two orchestration variables as input and builds a mail message and then sends that mail message to the specified SMTP endpoint.



The steps for adding and configuring a **Write MIME** activity in an orchestration are described in: [Adding a Write MIME activity to an orchestration](#).

- [Adding a Write MIME activity to an orchestration](#)

Perform the steps in this section to add a Write MIME activity to an orchestration.

- [Mapping the input of the activity](#)

In this task, you map the XML variables containing the MIME header and the parts (contains the attachments) to the **mimeheader** and **parts** input parameters of the **Write MIME** activity, respectively. Variable(s) must be mapped to the **parts** input parameter—this input parameter is required. The **mimeheader** input parameter is optional. If you do not map to or define default values for the elements of the **mimeheader** input parameter, default values are provided in the following table.

- [Mapping the output to an activity](#)

In this task, you map the **mimeheader** (of type XML) and **body** (of type string) output parameters to variable(s).

**Parent topic:** [Transform Activities](#)

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## Adding a Write MIME activity to an orchestration

Perform the steps in this section to add a Write MIME activity to an orchestration.

### Procedure

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the **Transform** folder.
3. Drag the Write MIME activity onto the orchestration. Place the Write MIME activity before the activity that pushes the message to an endpoint during run time. For example, place the Write MIME activity before the Send Email activity in the orchestration.

During run time, Send Email activity sends the email message to the POP3 server.

4. Select the **Write MIME** activity and configure it as described in the next section.

**Parent topic:** [Write MIME activity](#)

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## Mapping the input of the activity

---

In this task, you map the XML variables containing the MIME header and the parts (contains the attachments) to the mimeheader and parts input parameters of the **Write MIME** activity, respectively. Variable(s) must be mapped to the parts input parameter—this input parameter is required. The mimeheader input parameter is optional. If you do not map to or define default values for the elements of the **mimeheader** input parameter, default values are provided in the following table.

### About this task

---

If the mimeheader input parameter is not listed in the **To Activity** pane of the **Map Inputs** pane, select **Map > Show Optional Parameters** from the toolbar menu or right-click in the **To Activity** pane and select the **Show Optional Parameters** option. If the **Map > Show Optional Parameters** option is not selectable in the toolbar menu, click on a element in the **Map Inputs** pane to make this option active.

The following table defines the elements in the mimeheader input parameter:

Table 1.

Child Element of the mimeheader Input Parameter	Default Value
mimeVersion	The standard MIME Version of 1.0 is assigned. The resulting MIME header is equal to the following setting: MIME-Version: 1.0.
contentType	The value of the Content-Type setting in the resulting MIME header is equal to the following setting: Content-Type: multipart/mixed.
contentType/attribute/name	The attribute element contains a set of attributes as name/value pairs. The boundary between attachments can be specified using a boundary attribute element. If a boundary attribute is not specified a default value is generated.
contentTransferEncoding	The value of the Content-Transfer-Encoding in the resulting MIME header is equal to the following setting: Content-Transfer-Encoding: 7-bit. NOTE: The Content-Transfer-Encoding you specify in this element for the main MIME header cannot be more restrictive than Content-Transfer-Encoding of the entity MIME headers. For example if you specify that the Content-Transfer-Encoding for the main MIME header is 7-bit but the Content-Transfer-Encoding specified in the entity MIME headers is 8-bit, the Content-Transfer-Encoding of the main MIME header is changed to 8-bit.

If you do not specify values for some of the child elements of the parts input parameter, defaults are described in the following table.

Table 2.

Child Element of the parts Input Parameter	Default Value
mimeVersion	The standard MIME Version of 1.0 is assigned. The resulting MIME header contains the following setting: MIME-Version: 1.0.
contentType	The value of the Content-Type in the resulting MIME header contains the following setting: Content-Type: text/plain; charset=US-ASCII.
contentTransferEncoding	The value of the Content-Transfer-Encoding in the resulting MIME header depends on the Content-Type setting. If the Content-Type is equal to multipart, the resulting MIME header contains the following setting: Content-Transfer-Encoding: 7-bit. If the Content-Type is equal to text and charset is equal to not-us-ascii (where not-us-ascii is any type except US-ASCII) the resulting MIME header contains the following setting: Content-Transfer-Encoding: quoted-printable. If the Content-Type is equal to non-text, the resulting MIME header contains the following setting: Content-Transfer-Encoding: base64. NOTE: If the Content-Disposition is equal to attachment, the entity part is not treated as text.

The parts input parameter can contain one or more parts. Each part contains a MIME header that describes various attributes of the associated part body. How the individual MIME part is serialized depends on the values assigned to the following parameters in the mine header:

- Content-Type header
- Charset attribute within the Content-Type header
- Content-Transfer-Encoding

How the part body is serialized depends on the settings of Content-Transfer-Encoding and Content-Type:

Content-Type is equal to "text":

- If the Content-Type is "text" and the Content-Transfer-Encoding is "7-bit"/"8-bit" or "binary," the part body is converted from UTF8 charset to the charset specified and copied into the body output parameter.
- If the Content-Type is "text" and the Content-Transfer-Encoding is "quoted-printable," the part body is converted from UTF8 charset to the charset specified, quoted-printable encoded and copied into the body output parameter.
- If the Content-Type is "text" and the Content-Transfer-Encoding is "base64," the part body is converted from UTF8 charset to the charset specified, base64 encoded, and copied into the body output parameter.

If not explicitly specified in the part MIME header, charset defaults to "UTF8." The only exception to this default behavior is when the Content-Disposition is equal to "attachment" and the Content-Type is equal to "text." In this case, the part is not treated as text since the charset of the data cannot be known. In addition for this case, the Content-Transfer-Encoding is set to "binary."

Content-Type is not equal to "text":

- If the Content-Type is not equal to "text" and the Content-Transfer-Encoding is "7bit"/"8bit" or "binary," the part body is copied to the body output parameter as is.
- If the Content-Type is not equal to "text" and the Content-Transfer-Encoding is "quoted-printable," the part body is base64 decoded, quoted-printable encoded and copied into the body output parameter.
- If the Content-Type is not equal to "text" and the Content-Transfer-Encoding is "base64," the part body is copied as is (base64 data) into the body output parameter.

See [Creating a Standalone Map](#) for general instructions on mapping.

**Parent topic:** [Write MIME activity](#)

---

[Feedback](#) | [Notices](#)

## Mapping the output to an activity

---

In this task, you map the **mimeheader** (of type XML) and **body** (of type string) output parameters to variable(s).

For an email message with no message body and a single attachment of a text file, the text attachment becomes the body of the message.

The Email and MIME activities can only process 8-bit or binary data using the UTF8 charset.

**Parent topic:** [Write MIME activity](#)

**Related concepts:**

[Read MIME activity](#)

**Related information:**

[Get Email activity](#)

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## Read XML activity

---

The **Read XML** activity takes an XML document and parses it to a defined schema. XML data is returned from this activity as the output parameter and the data can be used in subsequent activities.

### About this task

---

The input parameter of the **Read XML** activity expects XML text. This data can be obtained from various endpoint activities such as the FTP Poll Directory activity reading a file containing XML data or HTTP Receive Request activity. The input data must be a well formed XML document or the activity will error. You must create an XML variable (see the **Variables** tab) before you can use an XML Schema in the Configure task. The XML variable can be defined by adding an XML schema to the project or by using an existing variable.

Note: If no function is defined in the Map Outputs for the Read XML activity and there is a straight mapping, in the From Activity to the To Orchestration, the XML data is passed to the output activity without validating against the schema that is specified in the XML variable.

Note: If there are any functions or other changes to the mappings in the Map Outputs for the Read XML activity, and the content does not match the schema, then an empty XML document is provided as the output of the Read XML activity.

To add a **Read XML** activity to an orchestration:

### Procedure

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the **Transform** folder.
3. Drag the **Read XML** activity onto the orchestration. Place it to the right of an activity from which the orchestration will obtain the XML data (for example, an FTP Poll Directory).
4. Select the **Read XML** activity and configure it as described in [Read XML activity configuration](#).
  - [Read XML activity configuration](#)  
You can specify the XML Schema to apply to the **Read XML** input parameter.
  - [Read XML map inputs](#)  
You can map a string variable that contains the XML data to the input parameter of the **Read XML** activity called XMLText.
  - [Read XML map output](#)  
You can map the OutputXml output parameter that contains the XML data (stored as a string) to a variable valid to the specified XML Schema.

**Parent topic:** Transform Activities

**Related tasks:**

[Read XML activity configuration](#)

[Read XML map inputs](#)

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## Read XML activity configuration

---

You can specify the XML Schema to apply to the **Read XML** input parameter.

### About this task

---

You must create an XML variable that defines the schema before starting this task.

### Procedure

---

1. In the XML Variable that defines the XML schema to parse, click **Browse**. The **Select a Variable to Parse** dialog box is displayed.
2. Select the appropriate XML Variable and click **OK**.
3. Specify how to read the data passed into the XMLText input parameter during run time by selecting one of the appropriate options:
  - a. Select the **Data is text-Needs no decoding** option if the incoming data is text and does not need decoding.
  - b. Select the **Decode data using encoding type** option if incoming data is binary data that needs to be decoded using the specified encoding type. Set the encoding type by selecting a default encoding type from the **Decode data using encoding type** list or enter your encoding type by clicking in the **Decode data using encoding type** field and typing in your encoding type.
4. Click **OK**.

**Parent topic:** [Read XML activity](#)

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## Read XML map inputs

---

You can map a string variable that contains the XML data to the input parameter of the **Read XML** activity called XMLText.

### About this task

---

XMLText is an input parameter of type string or base64Binary. During run time the string variable must contain well formed XML data before the **Read XML** activity is run. The Encoding input parameter is optional. (You are not required to map this input parameter). If the Encoding input parameter is not listed in the **To Activity** pane of the **Map Inputs** pane, select **Map > Show Optional Parameters** from the toolbar menu or right-click the **To Activity** pane and select the **Show Optional Parameters** option. If the **Map > Show Optional Parameters** option is not selectable in the toolbar menu, click a node in the **Map Inputs** pane to make the option active. The Encoding input parameter specifies how the incoming data is decoded when read.

## Procedure

---

1. If no decoding is required, specify the string: text.
2. If decoding is required, specify the encoding type to be used to decode the incoming data. For example: UTF-8, US-ASCII, ISO-8859-1, EBCDIC-XML-US, or SHIFT\_JIS.

## Example

---

Optionally, you can override the Encoding setting you specified in the Configure task of the Checklist dynamically during run time, using the Encoding input parameter. For example, if you set the Encoding to UTF-8 in the Configure task but during run time you passed in the Encoding setting of Shift\_JIS, the Encoding setting specified dynamically during run time overrides the original setting specified in the **Configure** pane. In this example, the Encoding is set to Shift\_JIS. There is one exception to the dynamic overriding behavior: if the **XMLText is text-Needs no decoding or encoding** option is selected in the **Configure** task, the Encoding dynamically set during run time is ignored and no decoding occurs.

**Parent topic:** [Read XML activity](#)

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## Read XML map output

---

You can map the OutputXml output parameter that contains the XML data (stored as a string) to a variable valid to the specified XML Schema.

See [Creating a Standalone Map](#) for general instructions on mapping.

During run time, an orchestration could invoke the following sequence of activities:

1. A FTP Poll Directory activity assigns the contents of a flat file to a String variable called **XMLRawContent**.
2. A **Read XML** activity assigns the contents of the **XMLRawContent** variable to the string input parameter called XMLText.
3. The **Read XML** activity converts XMLText to XML data and passes the XML data back to the orchestration via the output parameter. The contents of the output parameter are assigned to the variable valid to the XML Schema. The data XML input document can now be used and mapped within the orchestration.

**Parent topic:** [Read XML activity](#)

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## Write XML activity

---

The **Write XML** activity takes a complex (XML) variable and outputs a string in the XML format containing the data held in the complex variable. This string can then be written to a file or a database.

## About this task

---

The string is returned as an output parameter. The data from the orchestration must come from a complex variable which, on the variables tab, is indicated by the XML icon. You must create the input XML variable that defines the schema.

To add a **Write XML** activity to an orchestration:

## Procedure

---

1. Create or open an orchestration. For more information, see [Building an orchestration](#). A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the **Transform** folder.
3. Drag the **Write XML** activity onto the orchestration.
4. Select the **Write XML** activity and configure it as described in [Write XML activity configuration](#).
  - [Write XML activity configuration](#)  
For this task, you specify the XML Schema for the inbound data. The inbound data must be defined by an XML variable that defines the schema. You specify the XML Schema that applies to the input parameter.
  - [Write XML map inputs](#)  
You can map the data from variables of the orchestration to the InputXML parameter defined by the XML Schema specified in the Configure task.
  - [Write XML map output](#)  
You can map the XMLText output parameter that contains the XML data to a string variable.

**Parent topic:** [Transform Activities](#)

**Related concepts:**

[Write XML map output](#)

**Related tasks:**

[Write XML activity configuration](#)

[Write XML map inputs](#)

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## Write XML activity configuration

---

For this task, you specify the XML Schema for the inbound data. The inbound data must be defined by an XML variable that defines the schema. You specify the XML Schema that applies to the input parameter.

## Procedure

---

1. In the XML variable that defines the XML schema to serialize, click **Browse**. The **Select a Variable to Serialize** dialog box is displayed.
2. Select the appropriate XML variable and click **OK**.
3. Specify how the data defined by the OutputXML output parameter is to be encoded:
  - a. Select the **Data is text-Needs no decoding or encoding** option if the data is text and does not require encoding.
  - b. Select the **Decode or encode data using encoding type** option if outgoing data is binary data that requires encoding using the specified encoding type.
4. Set the encoding type using one of the following options:
  - a. From the **Decode or encode data using encoding type** list, select one of the default encoding types.
  - b. Click directly in the **Decode or encode data using encoding type** field and enter your encoding type.
5. Click **OK**.

**Parent topic:** [Write XML activity](#)

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## Write XML map inputs

---

You can map the data from variables of the orchestration to the InputXML parameter defined by the XML Schema specified in the Configure task.

### About this task

---

The Encoding input parameter is optional. You are not required to map this input parameter. If the Encoding input parameter is not listed in the **To Activity** pane of the **Map Inputs** pane, select **Map > Show Optional Parameters** from the toolbar menu or right-click in the **To Activity** pane and select the **Show Optional Parameters** option. If the **Map > Show Optional Parameters** option is not selectable in the toolbar menu, click on a node in the **Map Inputs** pane to make this option active. The Encoding input parameter specifies how outgoing data should be encoded for this procedure.

### Procedure

---

1. If no decoding is required, specify the string: **text**.
2. If encoding is required, specify the encoding type that should be used to encode the outgoing data, for example: UTF-8, US-ASCII, ISO-8859-1, EBCDIC-XML-US, or SHIFT\_JIS.

### Example

---

Optionally, you can override the Encoding setting you specified in the Configure task of the **Checklist** dynamically during run time, using the Encoding input parameter. For example, if you set the Encoding to UTF-8 in the Configure task but during run time you passed in the Encoding setting of **Shift\_JIS**. The Encoding setting specified dynamically during run time overrides the original setting specified in the **Configure** pane. In this example, the Encoding is set to **Shift\_JIS**. There is one exception to the dynamic overriding behavior: if the **Data is text-Needs no decoding or encoding** option is selected in the Configure task, the Encoding that is dynamically set during run time is ignored. See [Creating an orchestration](#) for more information.

**Parent topic:** [Write XML activity](#)

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## Write XML map output

---

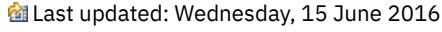
You can map the XMLText output parameter that contains the XML data to a string variable.

See [Creating a map](#) for general instructions on mapping.

**Parent topic:** [Write XML activity](#)

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#### [Feedback](#) | [Notices](#)



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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Write\\_xml\\_map\\_output.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Write_xml_map_output.html)

## Validate XML activity

---

During run time, the **Validate XML** activity determines if the input XML data is valid to the specified XML Schema or WSDL.

The **Validate XML** activity has the following limitations:

- The **Validate XML** activity only supports the validation of the selected root element of an XML Schema. The validation of XML Schema fragments is not supported. If the XML Schema contains more than one root (or global element), you must select one of the root elements.
- The **Validate XML** activity does not support the validation of XML data against a DTD.

Note: You must upload an XSD file (ends in the .xsd extension) that contains the XML Schema into the project before configuring the **Validate XML** activity. Upload the XML Schema into the project that is used to validate the XML data during run time.

The following table describes the result when an error or warning occurs when the **Validate XML** activity is parsing XML data against an XML Schema.

Table 1.

Error/Warning Type	Description	Example	Result
Fatal Error	Parsing of the XML data fails because of a severe problem and the parsing cannot continue. For example, the XML data is not valid to the XML Schema.	The XML data is not valid to the XML Schema. For example, the XML Schema defines that there should be a root element called <code>&lt;d&gt;</code> but the XML data contains the root element called <code>&lt;a&gt;</code> .	When a fatal error occurs, the current orchestration job stops processing— even the processing of the Validate XML activity does not complete. In addition, the activities in the orchestration after the Validate XML activity are not processed. The value returned from the Validate XML activity for the success output parameter is false but since the activity never completes, nothing is returned.
Error (recoverable)	An error occurs during the parsing of XML data but it does not prevent the parsing of rest of the XML data.	An XML element in an integer but a string is provided as a value: <code>&lt;a&gt;&lt;count&gt;two&lt;/count&gt;&lt;/a&gt;</code>	If only recoverable errors or warnings occur during parsing, the processing of the Validate XML activity completes and the activities in the orchestration after the Validate XML activity are processed. The value of false is returned from the success output parameter.
Warning	A warning occurs during the parsing of XML data but it does not prevent the parsing of rest of the XML data	Â	If only warnings occur during parsing, the processing of the Validate XML activity completes and the activities in the orchestration after the Validate XML activity are processed. The value of true is returned from the success output parameter.

- [Adding a Validate XML activity to an orchestration](#)  
Perform the steps in this section to add a **Validate XML** activity to an orchestration.
- [Configuring a Validate XML activity](#)  
Perform the steps in this section to configure a **Validate XML** activity.
- [Mapping the input to an activity](#)  
Do the steps in this section to map the input to an activity for **Validate XML**.
- [Mapping the output to an activity - Validate XML](#)  
Do the steps in this section to map the output to an activity for **Validate XML**.

**Parent topic:** Transform Activities

**Related concepts:**

[Mapping the input to an activity](#)

[Mapping the output to an activity - Validate XML](#)

---

[Feedback | Notices](#)

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## Adding a Validate XML activity to an orchestration

---

Perform the steps in this section to add a **Validate XML** activity to an orchestration.

### Procedure

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the **Transform** folder.
3. Drag the Validate XML activity onto the orchestration.
4. Select the Validate XML activity.

**Parent topic:** [Validate XML activity](#)

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[Feedback](#) | [Notices](#)

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## Configuring a Validate XML activity

---

Perform the steps in this section to configure a **Validate XML** activity.

### Procedure

---

1. Click **Configure** from the **Checklist**.
2. In the **XML Schema** field, click **Browse**. The **Browse For Schema Type Element** dialog box displays. Select the XML schema to parse against during run time. You must select a root or global element and not a schema fragment. The selected XML schema defines the nodes that make up the **InputXml** input parameter in the Map Inputs task.
3. Select or clear the **Continue Parsing XML Data after First Recoverable Error** check box. (This check box defines the run-time behavior when a recoverable error occurs).

### Results

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If the **Continue Parsing XML Data after First Recoverable Error** check box is selected and only recoverable errors and warnings occur but no fatal errors, the processing of the **Validate XML** activity completes after the first recoverable error and the value **false** is returned from the **success** output parameter. Only the first error is returned in the **errors** output parameter. The activities in the orchestration after the **Validate XML** activity are processed.

If the **Continue Parsing XML Data after First Recoverable Error** check box is cleared and only recoverable errors and warnings occur but no fatal errors, the processing of the **Validate XML** activity processes all the recoverable errors and the value **false** is returned from the **success** output parameter. Messages about all the recoverable errors are returned in the repeating **Message** node of the **errors** output parameter. The activities in the orchestration after the **Validate XML** activity are processed.

**Parent topic:** [Validate XML activity](#)

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[Feedback](#) | [Notices](#)

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## Mapping the input to an activity

Do the steps in this section to map the input to an activity for **Validate XML**.

1. Select the **Map Inputs** task in the **Checklist**. The XML Schema you selected in the [Configuring a Validate XML activity](#) procedure becomes the input parameter for the activity. The input parameter for the activity is displayed in the **From Orchestration** pane.
2. Map the nodes of the XML Schema of the input parameter. See [Creating a Standalone Map](#) for general instructions on mapping.

**Parent topic:** [Validate XML activity](#)

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[Feedback](#) | [Notices](#)

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## Mapping the output to an activity - Validate XML

Do the steps in this section to map the output to an activity for **Validate XML**.

To map the output of the activity:

1. Select the **Map Outputs** task in the **Checklist**. The output parameters for the activity are displayed in the **From Activity** pane as described in the following table:

Table 1.

o u t p u t N o d e	Description
s u c c e ss	During run time, if the parsing was successful, the value of <b>true</b> is returned. If parsing was unsuccessful, the value of <b>false</b> is returned. If fatal errors occur during parsing, the value of <b>false</b> is returned. If recoverable errors occur during parsing, the value of <b>false</b> is returned. If only warnings occur during parsing, the value of <b>true</b> is returned. In addition, if no warnings or errors occur during parsing, the value of <b>true</b> is returned. Map from the <b>success</b> output parameter to a variable of type string. In XPATH expressions, compare the value of the string variable against the string values of <b>true</b> and <b>false</b> .
er ro rs /e rr or T y p e	The type of error/warning for the last error or warning that occurred during run time.

O u t p u t  N o d e	Description
er ro rs / M e ss a g e	A repeating structure that contains a string that describes each error and warning that occurred during run time. All parsing warnings, fatal errors, and recoverable errors are returned.

2. Map the desired output parameters to variable(s). See [Creating a Standalone Map](#) for general instructions on mapping. You are not required to map output parameters for this activity.

**Parent topic:** [Validate XML activity](#)

**Related tasks:**

[Read XML activity](#)

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## Read JSON activity

The **Read JSON** activity takes a JSON or XML message and parses it to a defined schema to generate an output structure that can be used by the orchestration. At runtime this activity parses the JSON message and generates equivalent XML that can be mapped to other Studio activities.

### About this task

The input parameter of the **Read JSON** activity expects sample JSON or equivalent sample XML text. (Equivalent JSON or XML text is available from the JSON/REST API documentation). The input data must be a well formed JSON or XML message or the activity fails. If you do not use a schema, you must create a JSON variable (see the **Variables** tab) before you can use an XML schema in the Configure task. The variable can be defined by adding an XML schema to the project or by utilizing an existing variable. Once the JSON/REST sample is provided, the activity generates an equivalent structure for JSON/XML. The XML is mapped to the activity output which can be used by the orchestration. At runtime this activity consumes the JSON message and generates equivalent XML that can be mapped to other studio activities.

To add a **Read JSON** activity to an orchestration:

### Procedure

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the **Transform** folder.
3. Drag the **Read JSON** activity onto the orchestration. Place it to the right of an activity from which the orchestration will obtain the JSON data (for example, an FTP Poll Directory).
4. Select the **Read JSON** activity and configure it as described in [Read JSON activity](#).

- [Read JSON activity configuration](#)

You can apply a sample JSON or XML message to the **Read JSON** input parameter. Use of a schema is optional for this step.

- [Read JSON map inputs](#)

You can map a string variable that contains JSON data to the input parameter of the **Read JSON** activity called JSONText.

- [Read JSON map output](#)

You can map the OutputJSON output parameter that contains the JSON data (stored as a string) to a variable valid to the specified XML schema.

**Parent topic:** [Transform Activities](#)

**Related tasks:**

[Read JSON activity configuration](#)

[Read JSON map inputs](#)

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## Read JSON activity configuration

---

You can apply a sample JSON or XML message to the **Read JSON** input parameter. Use of a schema is optional for this step.

### About this task

---

If you're applying a JSON or XML message to the **Read JSON** input parameter, do the following steps:

Note: Because not all JSON messages contain a root node, Studio, by default, adds a virtual root element to all JSON messages during a write JSON activity. (Virtual nodes facilitate handling of rootless messages in Studio). To determine if a root node is present, view the message in the Configure panel. If the message does not contain a root element, Studio will automatically generate one during the write JSON activity and display it in the root element file. To remove the root element, delete it from the Configure panel so the output message matches the required structure.

### Procedure

---

1. Click Configure from the Checklist. The Configure window is displayed.
2. In the Configure window, copy the JSON or XML message into the text area and click Generate Output Map. If you're specifying an XML schema to apply to the Read JSON input parameter, do the following additional steps: (a) In the Select XML Schema pane click the Select XML Schema button to browse for the XML schema, then (b) select the XML schema to parse against during run time and click OK. (You must select a root or global element and not a schema fragment).
3. Specify how to read the data passed into the JSONText input parameter during run time by selecting one of the appropriate options:
  - a. Select the **Data is text-Needs no decoding** option if the incoming data is text and does not need decoding.
  - b. Select the **Decode data using encoding type** option if incoming data is binary data that needs to be decoded using the specified encoding type. Set the encoding type by selecting a default encoding type from the **Decode data using encoding type** list or enter your encoding type by clicking in the **Decode data using encoding type** field and typing in your encoding type.
4. Click **OK**.

**Parent topic:** [Read JSON activity](#)

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## Read JSON map inputs

---

You can map a string variable that contains JSON data to the input parameter of the **Read JSON** activity called **JSONText**.

### About this task

---

**JSONText** is an input parameter of type string or base64Binary. During run time the string variable must contain well formed JSON data before the **Read JSON** activity is run. The Encoding input parameter is optional. (You are not required to map this parameter). If the Encoding input parameter is not listed in the **To Activity** pane of the **Map Inputs** pane, select **Map > Show Optional Parameters** from the toolbar menu or right-click the **To Activity** pane and select the **Show Optional Parameters** option. If the **Map > Show Optional Parameters** option is not selectable in the toolbar menu, click a node in the **Map Inputs** pane to make the option active. The Encoding input parameter specifies how the incoming data is decoded when read.

### Procedure

---

1. If no decoding is required, specify the string: text.
2. If decoding is required, specify the encoding type to be used to decode the incoming data. For example: UTF-8, US-ASCII, ISO-8859-1, EBCDIC-XML-US, or SHIFT\_JIS.

### Example

---

Optionally, you can override the Encoding setting you specified in the **Configure** task of the Checklist dynamically during run time, using the Encoding input parameter. For example, if you set the Encoding to UTF-8 in the Configure task but during run time you passed in the Encoding setting of Shift\_JIS, the Encoding setting specified dynamically during run time overrides the original setting specified in the **Configure** pane. In this example, the Encoding is set to Shift\_JIS. There is one exception to the dynamic overriding behavior: if the **JSONText is text-Needs no decoding or encoding** option is selected in the **Configure** task, the Encoding dynamically set during run time is ignored and no decoding occurs.

**Parent topic:** [Read JSON activity](#)

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[Feedback](#) | [Notices](#)

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## Read JSON map output

---

You can map the **OutputJSON** output parameter that contains the JSON data (stored as a string) to a variable valid to the specified XML schema.

See [Creating a Standalone Map](#) for general instructions on mapping.

During run time, an orchestration could invoke the following sequence of activities:

1. An HTTP Receive activity assigns the received body to a String variable called **JSONRawContent**.
2. A **Read JSON** activity assigns the contents of the **JSONRawContent** variable to the string input parameter called **JSONText**.
3. The **Read JSON** activity converts JSON data to XML data and passes the XML back to the orchestration via the output parameter. The contents of the output parameter are assigned to the variable valid to the XML schema. The data JSON input document can now be used and mapped within the orchestration.

**Parent topic:** [Read JSON activity](#)

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[Feedback](#) | [Notices](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/read\\_json\\_map\\_output.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/read_json_map_output.html)

## Write JSON activity

---

The **Write JSON** activity takes a structure equivalent to JSON as input and outputs a string in the JSON format containing the data held in the complex variable. This string can then be written to a file or posted using HTTP.

### About this task

---

The JSON string is returned as an output parameter. (This is only applicable if you use a schema). The orchestration data must come from a complex variable which is indicated by the XML icon on the Variables tab. You configure the activity by pasting a JSON or XML sample message (available in the JSON/REST API documentation) in the Configure panel. This generates a compatible input structure for mapping the input data, which is then converted to a JSON message.

To add a **Write JSON** activity to an orchestration:

### Procedure

---

1. Create or open an orchestration. For more information, see [Building an orchestration](#). A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the **Transform** folder.
3. Drag the **Write JSON** activity onto the orchestration.
4. Select the **Write JSON** activity and configure it as described in [Write JSON activity configuration](#).

- [Write JSON activity configuration](#)

During this procedure, you apply a sample JSON or XML message to the Write JSON input parameter. If you prefer, you can also use a schema for this task.

- [Write JSON map inputs](#)

You can map data from variables in the orchestration to the InputJSON parameter defined by the XML schema specified in the Configure task or use sample JSON/REST XML and the Configure panel to generate the input structure.

- [Write JSON map output](#)

You can map the JSONText output parameter that contains the JSON data to a string variable.

**Parent topic:** [Transform Activities](#)

**Related concepts:**

[Write JSON map output](#)

**Related tasks:**

[Write JSON activity configuration](#)

[Write JSON map inputs](#)

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## Write JSON activity configuration

---

During this procedure, you apply a sample JSON or XML message to the Write JSON input parameter. If you prefer, you can also use a schema for this task.

### About this task

---

Note: Because not all JSON messages contain a root node, Studio, by default, adds a virtual root element to all JSON messages during a write JSON activity. (Virtual nodes facilitate handling of rootless messages in Studio). To determine if a root node is present, view the message in the Configure panel. If the message does not contain a root element, Studio will automatically generate one during the write JSON activity and display it in the root element file. To remove the root element, delete it from the Configure panel so the output message matches the required structure.

## Procedure

---

1. Click Configure from the Checklist. The Configure window is displayed.
2. In the Configure window, you can either use an XML Schema or JSON or XML message to generate map.
  - a. If you are specifying an XML schema to apply to the Write JSON input parameter, do the following: In the Select XML Schema field, click the Select XML Schema button to browse and select XML schema. Select the XML schema to parse during run time and click OK.
  - b. If you want to use the JSON or XML message, copy the JSON or XML message into the Use JSON or XML message to generate the output schema text area.
3. Choose a Virtual Root Configuration.
  - a. When you use JSON or XML message to generate map, if more than one element present in JSON, then by default, Remove root Element is checked automatically.
  - b. When you use XML Schema to generate map, Remove root Element is not checked by default.

Note: If the Remove Root Element is checked, the first root element is skipped and the JSON text is created properly with the remaining elements. You can specify a Root Element Name. However if the Remove Root Element is not checked, then for all the complex types will not get the root element names and hence will be displayed as null.
4. Specify how the data defined by the OutputJSON output parameter is to be encoded:
  - a. Select the **Data is text-Needs no decoding or encoding** option if the data is text and does not require encoding.
  - b. Select the **Encode data using encoding type** option if outgoing data is binary data that requires encoding using the specified encoding type.
5. Set the encoding type using one of the following options:
  - a. From the Encode data using encoding type list, select one of the default encoding types.
  - b. Click directly in the Encode data using encoding type field and enter your encoding type.
  - c. Click OK.
6. Click Generate Map.

**Parent topic:** [Write JSON activity](#)

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## Write JSON map inputs

---

You can map data from variables in the orchestration to the InputJSON parameter defined by the XML schema specified in the Configure task or use sample JSON/REST XML and the Configure panel to generate the input structure.

### About this task

---

The Encoding input parameter is optional and you are not required to map it. If the Encoding input parameter is not listed in the **To Activity** pane of the Map Inputs pane, select **Map > Show Optional Parameters** from the toolbar menu or right-click in the **To Activity** pane and select the **Show Optional Parameters** option. If the **Map > Show Optional Parameters** option is not selectable in the toolbar menu, click on a node in the Map Inputs pane to make this option active. The Encoding input parameter specifies how outgoing data should be encoded for this procedure.

## Procedure

---

1. If no decoding is required, specify the string: **text**.
2. If encoding is required, specify the encoding type to be used to encode the outgoing data, for example: UTF-8, US-ASCII, ISO-8859-1, EBCDIC-XML-US, or SHIFT\_JIS.

## Example

---

Optionally, you can override the Encoding setting you specified in the **Configure** task of the **Checklist** dynamically during run time using the Encoding input parameter. For example, if you set the Encoding to UTF-8 in the **Configure** task but during run time you passed in the Encoding setting of **Shift\_JIS**. The Encoding setting specified dynamically during run time overrides the original setting specified in the **Configure** pane. In this example, the Encoding is set to **Shift\_JIS**. There is one exception to the dynamic overriding behavior: if the **Data is text-Needs no decoding or encoding** option is selected in the **Configure** task, the Encoding that is dynamically set during run time is ignored. See [Creating an orchestration](#) for more information.

**Parent topic:** [Write JSON activity](#)

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## Write JSON map output

---

You can map the **JSONText** output parameter that contains the JSON data to a string variable.

See [Creating a Standalone Map](#)for general instructions on mapping.

**Parent topic:** [Write JSON activity](#)

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[Feedback](#) | [Notices](#)

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## Validate JSON activity

---

During run time, the **Validate JSON** activity determines if the input JSON or XML data is valid to the specified XML schema.

The **Validate JSON** activity has the following limitations:

- The **Validate JSON** activity only supports the validation of the selected root element of an XML schema. The validation of XML schema fragments is not supported. If the XML schema contains more than one root (or global element), you must select one of the root elements.
- The **Validate JSON** activity does not support the validation of JSON or XML data against a DTD.

Note: You must upload an XSD file (ends in the .xsd extension) that contains the XML schema into the project before configuring the **Validate JSON** activity. Upload the XML schema into the project that is used to validate the JSON data during run time.

The following table describes the result when an error or warning occurs when the **Validate JSON** activity is parsing JSON or XML data against an XML schema.

Table 1.

Error/Warning Type	Description	Example	Result
--------------------	-------------	---------	--------

Error/Warning Type	Description	Example	Result
Fatal Error	Parsing of the JSON data fails because of a severe problem and the parsing cannot continue. For example, the JSON or XML data is not valid to the XML schema.	The JSON or XML data is not valid to the XML schema. For example, the XML schema defines that there should be a root element called <code>&lt;d&gt;</code> but the JSON or XML data contains the root element called <code>&lt;a&gt;</code> .	When a fatal error occurs, the current orchestration job stops processing even the processing of the Validate JSON activity does not complete. In addition, the activities in the orchestration after the Validate JSON activity are not processed. The value returned from the Validate JSON activity for the success output parameter is false but since the activity never completes, nothing is returned.
Error (recoverable)	An error occurs during the parsing of JSON data but does not prevent parsing of the remaining data.	A JSON element in an integer but a string is provided as a value: <code>&lt;a&gt;&lt;count&gt;two&lt;/count&gt;&lt;/a&gt;</code>	If only recoverable errors or warnings occur during parsing, the processing of the Validate JSON activity completes and the activities in the orchestration after the Validate JSON activity are processed. The value of false is returned from the success output parameter.
Warning	A warning occurs during the parsing of JSON data but does not prevent parsing of the remaining data	Â	If only warnings occur during parsing, the processing of the Validate JSON activity completes and the activities in the orchestration after the Validate JSON activity are processed. The value of true is returned from the success output parameter.

- [Adding a Validate JSON activity to an orchestration](#)  
Perform the steps in this section to add a **Validate JSON** activity to an orchestration.
- [Configuring a Validate JSON activity](#)  
Perform the steps in this section to configure a **Validate JSON** activity.
- [Mapping the input to an activity - Validate JSON](#)  
Do the steps in this section to map the input to an activity for Validate JSON.
- [Mapping the output to an activity - Validate JSON](#)  
Do the steps in this section to map the output to an activity for **Validate JSON**.

**Parent topic:** [Transform Activities](#)

**Related concepts:**

[Mapping the input to an activity](#)

[Mapping the output to an activity - Validate XML](#)

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## Adding a Validate JSON activity to an orchestration

---

Perform the steps in this section to add a **Validate JSON** activity to an orchestration.

### Procedure

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the **Transform** folder.
3. Drag the Validate JSON activity onto the orchestration.
4. Select the Validate JSON activity.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Add\\_Validate\\_JSON\\_Activity\\_to\\_Orchestration.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Add_Validate_JSON_Activity_to_Orchestration.html)

## Configuring a Validate JSON activity

---

Perform the steps in this section to configure a **Validate JSON** activity.

### Procedure

---

1. Click **Configure** from the **Checklist**. The Configure window is displayed.
2. In the **XML Schema** field, click **Browse**. The **Browse For Schema Type Element** dialog box displays. Select the XML schema to parse against during run time. You must select a root or global element and not a schema fragment. The selected XML schema defines the nodes that make up the **InputJSON** input parameter in the Map Inputs task.
3. Select or clear the **Continue Parsing JSON Data after First Recoverable Error** check box. (This check box defines the run-time behavior when a recoverable error occurs).

### Results

---

If the **Continue Parsing JSON Data after First Recoverable Error** check box is selected and only recoverable errors and warnings occur but no fatal errors, processing of the **Validate JSON** activity completes after the first recoverable error and the value **false** is returned from the success output parameter. Only the first error is returned in the **errors** output parameter. The activities in the orchestration after the **Validate JSON** activity are processed.

If the **Continue Parsing JSON Data after First Recoverable Error** check box is cleared and only recoverable errors and warnings occur but no fatal errors, the processing of the **Validate JSON** activity processes all the recoverable errors and the value **false** is returned from the **success** output parameter. Messages about all the recoverable errors are returned in the repeating **Message** node of the **errors** output parameter. The activities in the orchestration after the **Validate JSON** activity are processed.

**Parent topic:** [Validate JSON activity](#)

---

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## Mapping the input to an activity - Validate JSON

---

Do the steps in this section to map the input to an activity for Validate JSON.

### Procedure

---

1. Select the **Map Inputs** task in the **Checklist**. The XML schema you selected in the Configuring a Validate JSON activity procedure above becomes the input parameter for the activity. The input parameters for the activity are displayed in the **From Orchestration** pane.
2. Map the nodes of the XML schema of the input parameter. See [Creating a Standalone Map](#) for general instructions on mapping.

**Parent topic:** [Validate JSON activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/mapping\\_activity\\_input\\_validatejson.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/mapping_activity_input_validatejson.html)

## Mapping the output to an activity - Validate JSON

---

Do the steps in this section to map the output to an activity for **Validate JSON**.

To map the output of the activity:

1. Select the **Map Outputs** task in the **Checklist**. The output parameters for the activity are displayed in the **From Activity** pane as described in the following table:

Table 1.

O u t p u t N o d e	Description
s u c c e ss	During run time, if the parsing was successful, the value of <b>true</b> is returned. If parsing was unsuccessful, the value of <b>false</b> is returned. If fatal errors occur during parsing, the value of <b>false</b> is returned. If recoverable errors occur during parsing, the value of <b>false</b> is returned. If only warnings occur during parsing, the value of <b>true</b> is returned. In addition, if no warnings or errors occur during parsing, the value of <b>true</b> is returned. Map from the <b>success</b> output parameter to a variable of type string. In XPATH expressions, compare the value of the string variable against the string values of <b>true</b> and <b>false</b> .
er ro rs /e rr or T y p e	The type of error/warning for the last error or warning that occurred during run time.
er ro rs / M e ss a g e	A repeating structure that contains a string that describes each error and warning that occurred during run time. All parsing warnings, fatal errors, and recoverable errors are returned.

2. Map the desired output parameters to variable(s). See [Creating a Standalone Map](#)for general instructions on mapping. You are not required to map output parameters for this activity.

**Parent topic:** [Validate JSON activity](#)

**Related concepts:**

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## Read Flat File activity

---

The Read Flat File activity converts flat file data (non-XML data) to XML data by applying the specified Flat File Schema. XML data is returned from this activity as the output parameter.

### About this task

---

The input parameter of the Read Flat File activity expects flat file data. Flat file (non-XML) data includes comma-separated values (.csv) and other types of delimited files, as well as fixed-length text files that comprise many EDI systems. Flat File data can be obtained from various endpoint activities, such as the FTP Poll Directory activity, HTTP Receive Request activity, or Get Email activity.

For an example of using a Read Flat File activity in an orchestration, see "*Developing a Simple Project*" in the *Getting Started Guide*.

You must [create the Flat File Schema](#) before you can select a Flat File Schema in the Select a Flat File Schema field of the Configure task.

To add a Read Flat File activity to an orchestration:

### Procedure

---

1. Create or open an orchestration. For more information, see [Creating an orchestration](#). A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Transform folder.
3. Drag the Read Flat File activity onto the orchestration. Place it to the right of an endpoint activity from which the orchestration will obtain the flat file data (for example, an **FTP Poll Directory** activity).
4. Select the Read Flat File activity and configure it as described in [Configuring a Flat File activity](#).
  - [Read Flat File activity configuration](#)  
You can specify the Flat File Schema to apply to the Read Flat File input parameter.
  - [Read Flat File map inputs](#)  
You can map a string variable that contains the flat file data to the input parameter of the Read Flat File activity called Data.
  - [Read Flat File map outputs](#)  
You can map the Xml output parameter that contains the XML data (stored as a string) to a variable valid to the specified Flat File Schema.

**Parent topic:** [Transform Activities](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Flat\\_File\\_to\\_XML\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Flat_File_to_XML_Activity.html)

## Read Flat File activity configuration

---

You can specify the Flat File Schema to apply to the Read Flat File input parameter.

## Before you begin

---

You must [create the Flat File Schema](#) before starting this task.

## About this task

---

To complete the Configure task:

### Procedure

---

1. In the Select a Flat File Schema field, click Browse.... The Project Explorer dialog box is displayed.
2. Select the appropriate Flat File Schema from the Flat File Schema folder and click OK.
3. Specify how to read the data passed into the Data input parameter during run time, by selecting one of the appropriate options:
  - a. Select the Data is text-Needs no decoding option, if the incoming data is text and does not need decoding.
  - b. Select the Decode data using encoding type option, if incoming data is binary data that needs to be decoded using the specified encoding type. Set the encoding type using one of the following options:
    - From the Decode data using encoding type list, select one of the default encoding types.
    - Enter your encoding type by clicking in the Decode data using encoding type field and typing in your encoding type.
4. Click OK.

**Parent topic:** [Read Flat File activity](#)

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## Read Flat File map inputs

---

You can map a string variable that contains the flat file data to the input parameter of the Read Flat File activity called Data.

## About this task

---

Data is an input parameter of type string or base64Binary. During run time the string variable must contain flat file data before the Read Flat File activity is run. For more information see the following Runtime Example.

The Encoding input parameter is optional. You are *not* required to map this input parameter. If the Encoding input parameter is not listed in the To Activity pane of the Map Inputs pane, select Map > Show Optional Parameters from the toolbar menu or right-click the To Activity pane and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click a node in the Map Inputs pane to make this option active.

The Encoding input parameter specifies how the incoming data is decoded when read:

### Procedure

---

- If no decoding is required, specify the string: `text`.
- If decoding is required, specify the encoding type that should be used to decode the incoming data. For example: `UTF-8`, `US-ASCII`, `ISO-8859-1`, `EBCDIC-XML-US`, or `SHIFT_JIS`.

## Example

---

Optionally, you can override the Encoding setting you specified in the Configure task of the Checklist dynamically during run time, using the Encoding input parameter. For example, if you set the Encoding to `UTF-8` in the Configure task but during run time you passed in the Encoding setting of `Shift_JIS`. The Encoding setting specified dynamically during run time overrides the original setting specified in the Configure pane. In this example, the Encoding would be set to `Shift_JIS`. There is one exception to the

dynamic overriding behavior if the Data is text-Needs no decoding or encoding option is selected in the Configure task, the Encoding dynamically set during run time is ignored and no decoding occurs.

See [Creating a map](#) for general instructions on mapping.

**Parent topic:** [Read Flat File activity](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Read\\_Flat\\_File\\_Map\\_Inputs.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Read_Flat_File_Map_Inputs.html)

## Read Flat File map outputs

---

You can map the Xml output parameter that contains the XML data (stored as a string) to a variable valid to the specified Flat File Schema.

### About this task

---

See [Creating a Map](#) for general instructions on mapping.

Runtime Example

During run time, an orchestration could invoke the following sequence of activities:

### Procedure

---

1. A FTP Poll Directory activity assigns the contents of a flat file to a String variable called *flatFileRawContent*.
2. A Read Flat File activity assigns the contents of the *flatFileRawContent* variable to the string input parameter called Data.
3. The Read Flat File activity converts flat file data to XML data and passes the XML data back to the orchestration via the output parameter. The contents of the output parameter are assigned to the variable valid to the Flat File Schema.

### What to do next

---

For an example of using a Read Flat File activity in an orchestration, see "Developing a Simple Project" in the *Getting Started Guide*.

**Parent topic:** [Read Flat File activity](#)

---

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## Write Flat File activity

---

The Write Flat File activity converts data from an orchestration into flat file data (non-XML data) that is valid to the specified Flat File Schema.

### About this task

---

The flat file data is returned as a string output parameter. The data from the orchestration can come from multiple variables of different types. For example, the data from the orchestration could contain two sets of XML data valid to two different XML Schemas and a string.

Flat file (non-XML) data includes comma-separated values (.csv) and other types of delimited files, as well as fixed-length text files that comprise many EDI systems.

You must create the Flat File Schema before you can select a Flat File Schema in the Select a Flat File Schema field of the Configure task. See [Creating a flat file schema](#) for more information.

To add a Write Flat File activity to an orchestration:

## Procedure

---

1. Create or open an orchestration. For more information, see [Creating an orchestration](#). A graphical representation of the orchestration is displayed.
  2. Select the Activities tab and expand the Transform folder.
  3. Drag the Write Flat File activity onto the orchestration
  4. Select the Write Flat File activity and configure it as described in [Write Flat File activity configuration](#).
- [Write Flat File activity configuration](#)  
You can specify the Flat File Schema that must be applied to the outbound data.
  - [Write Flat File map inputs and outputs](#)  
You can map the data from variables of the orchestration to the Xml input parameter defined by the Flat File Schema specified in Configure task.

**Parent topic:** [Transform Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/XML\\_to\\_Flat\\_File\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/XML_to_Flat_File_Activity.html)

## Write Flat File activity configuration

---

You can specify the Flat File Schema that must be applied to the outbound data.

### Before you begin

---

You must first [create the Flat File Schema](#) before starting this task.

### About this task

---

You can specify the Flat File Schema to apply to the input parameter. To complete the Configure task:

## Procedure

---

1. In the Select a Flat File Schema field, click Browse.... The Project Explorer dialog box is displayed.
2. Select the appropriate Flat File Schema from the Flat File Schema folder and click OK.
3. Specify how to write the data returned by the Data output parameter during run time, by selecting one of the appropriate options:
  - a. Select the Data is text-Needs no decoding or encoding option, if the outgoing data is text and therefore does not require encoding.
  - b. Select the Decode or encode data using encoding type option, if outgoing data is binary data that requires encoding using the specified encoding type. Set the encoding type using one of the following options:
    - From the Decode or encode data using encoding type list, select one of the default encoding types.
    - Click directly in the Decode or encode data using encoding type field and enter your encoding type.
4. Click OK.

**Parent topic:** [Write Flat File activity](#)

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## Write Flat File map inputs and outputs

---

You can map the data from variables of the orchestration to the XML input parameter defined by the Flat File Schema specified in Configure task.

### About this task

---

The Encoding input parameter is optional. You are not required to map this input parameter. If the Encoding input parameter is not listed in the To Activity pane of the Map Inputs pane, select Map > Show Optional Parameters from the toolbar menu or right-click in the To Activity pane and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click on a node in the Map Inputs pane to make this option active.

The Encoding input parameter specifies how outgoing data should be encoded:

### Procedure

---

- If no encoding is required, specify the string: `text`.
- If encoding is required, specify the encoding type that should be used to encode the outgoing data, for example: `UTF-8`, `US-ASCII`, `ISO-8859-1`, `EBCDIC-XML-US`, or `SHIFT_JIS`.

### Example

---

Optionally, you can override the Encoding setting you specified in the Configure task of the Checklist dynamically during run time, using the Encoding input parameter. For example, if you set the Encoding to `UTF-8` in the Configure task but during run time you passed in the Encoding setting of `Shift_JIS`. The Encoding setting specified dynamically during run time overrides the original setting specified in the Configure pane. In this example, the Encoding would be set to `Shift_JIS`. There is one exception to the dynamic overriding behavior, if the Data is `text`-Needs no decoding or encoding option is selected in the Configure task, the Encoding dynamically set during run time is ignored.

See [Creating a map](#) for general instructions on mapping.

**Parent topic:** [Write Flat File activity](#)

## Write Flat File map outputs

---

You can map the Data output parameter that contains the flat file data to a string variable.

### About this task

---

See [Creating a Map](#) for general instructions on mapping.

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## Overview of OData Activities

---

OData (Open Data Protocol) allows the creation and consumption of queryable and interoperable RESTful APIs in a simple and standard way. It is an OASIS standard that defines the best practice for building and consuming RESTful APIs. OData helps you focus on your business logic while building RESTful APIs without having to worry about the approaches to define request and response headers, status codes, HTTP methods, URL conventions, media types, payload formats and query options.

Cast Iron version 7.5.1.0 supports exposing data from back end systems as OData APIs. Only GET and DELETE methods are supported in this version which means external clients can make GET and DELETE calls to OData API running on Cast Iron. The version of OData supported is 4.0.

OData activities work in conjunction with HTTP/ReST activities in Cast Iron. That means the output of the HTTP activities is given as input to OData activity and then the output of the OData activity is passed back as input to the HTTP activities.

Cast Iron supports two OData activities:

- **Read OData:** Takes input the URL information, payload, http headers and query parameters and gives the output in XML format. This XML output is used to perform the business logic on the backend systems involving CRUD operations using connector activities.
- **Write OData:** Takes input the business data which is created as part of the business logic execution and serializes into OData format (XML or JSON)

Note: It is recommended to use Cast Iron version 7.5.1.0 ifix005 or later versions.

- [Configuring OData Activities](#)
- [Read OData Activity](#)
- [Write OData Activity](#)
- [Mapping of XML Schema and OData Entity Data Model \(EDM\) datatypes](#)

**Parent topic:** [Transform Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/OData\\_Overview.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/OData_Overview.html)

## Configuring OData Activities

---

**When exposing backend data as OData APIs using Cast Iron:**

1. In this case **HTTP Receive Request** and **HTTP Send Response** activities are used to expose OData APIs.
2. The output of this HTTP Receive activity (uri, method, host, accept and content-type other http headers, payload) is passed as input to the Read OData activity.
3. Steps for configuring Read OData Activity
  - a. Create or open an orchestration. A graphical representation of the orchestration is displayed.
  - b. Select the Activities tab and expand the Transform folder.
  - c. Drag the Read OData Activity onto the orchestration.
  - d. In the checklist, click Configure.
  - e. Select the version for OData version.
  - f. Select Input Data. You can select either one of Existing XML Schema or New XML Schema to support multiple Entities.
  - g. If you have selected Existing XML Schema, click Browse to select the existing XML Schema.
  - h. If you have selected New XML Schema to support multiple Entities, paste the New XML Schema Content and click Generate Maps.
  - i. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the readODataOutputPayload parameter in the From Activity panel.
  - j. Populate the map input properties by referring to the [Read OData Activity](#).
  - k. Create a map between the output parameters and orchestration variables.

Note:

- o The output of Read OData Activity is used to perform business logic on the endpoint/backend systems using connectors available in Cast Iron.
- o The output from this business logic activities (http response code, payload) and Read OData Activity (serviceName, protocol, host, method, accept, content-type, resourcePath, entities, additionalPath, fieldName, primaryKeys and

- additionalConfiguration) is given as input to the Write OData Activity.
- The value of serviceName in the map input of Read OData Activity must have a same value as that of the value of **URL (Path after hostname)** property in HTTP Receive Request Activity.
  - The format of primaryKeys property in the map input of Read OData Activity is described in [Read OData Activity](#).

#### 4. Steps for configuring Write OData Activity

- a. Create or open an orchestration. A graphical representation of the orchestration is displayed.
- b. Select the Activities tab and expand the Transform folder.
- c. Drag the Write OData Activity onto the orchestration.
- d. In the checklist, click Configure.
- e. Select the version for OData version.
- f. Select Input Data. You can select either one of Existing XML Schema or New XML Schema to support multiple Entities.
- g. If you have selected Existing XML Schema, click Browse to select the existing XML Schema.
- h. If you have selected New XML Schema to support multiple Entities, paste the New XML Schema Content and click Generate Maps.
- i. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Write OData Activity are displayed as nodes under the writeODataInput parameter in the To Activity panel.
- j. Populate the map input properties by referring to the [Write OData Activity](#).
- k. Create a map between the output parameters and orchestration variables.

Note: The output of the Write OData activity containing response payload, http status code and headers is passed to the HTTP Send Response activity.

Note:

- As of now Cast Iron exposes OData APIs for only DELETE and GET HTTP methods.
- Only the following OData query parameters are supported as of Cast Iron version 7.5.1 ifix005.
  - \$count - allows clients to request a count of the matching resources included with the resources in the response. Accepts a Boolean value of true or false.
  - \$skip - requests the number of items in the queried collection that are to be skipped and not included in the result.
  - \$top - requests the number of items in the queried collection to be included in the result.
  - \$format - allows clients to request a response in a particular format.
  - \$select - allows clients to request a specific set of properties for each entity or complex type.
  - \$filter - allows clients to filter a collection of resources that are addressed by a request URL. Only 'fieldName eq value' is supported as of 7.5.1 ifix005.
- Business object structures containing simple datatype fields are only supported. Business object structure containing child complex types is not supported.
- OData APIs exposed in Cast Iron 7.5.1 ifix005 supports Salesforce Lightning Connect.

**Parent topic:** [Overview of OData Activities](#)

[Feedback | Notices](#)

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## Read OData Activity

This activity takes the OData URL along with query parameters, payload, http headers as input and creates output giving details of the object being used, the primary key details, the payload if present. This output is used as part of business logic execution along with other activities in the orchestration.

### Configuration Properties for the Read OData activity

Table 1. Configure panel properties

Field Name	Description
OData version	The OData version to be used by this activity. The same version need to use across all the activities in a single orchestration. The only version supported currently is 4.0.

Field Name	Description
Select Input data	<p>Select one of the options on how to provide the business data structure to the Read OData activity. The OData API is created based on this business structure(s) provided.</p> <ul style="list-style-type: none"> <li><b>Existing XML Schema:</b> Select this option to browse an existing schema available in the orchestration. Only one object can be selected with this option which means the OData API will be supporting only one top level object. This option is used if OData API need to be exposed by Cast Iron orchestrations.</li> <li><b>Endpoint URL (OData API):</b> Select this option to talk to an external OData API application. In this case Cast Iron is acting as client. The service root URL of the external application need to be provided. This option is not supported as of version 7.5.1 and will be added in future versions.</li> <li><b>New XML schema to support multiple Entities:</b> Select this option to support multiple top level objects in the OData API. An XML schema containing one or more global elements need to be pasted in the text area provided. This option is used if OData API need to be exposed by Cast Iron orchestrations. For example, refer to the sample XML schema given below.</li> </ul>

A sample XML schema containing account and product objects is given as an example.

```
<?xml version="1.0" encoding="UTF-8"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
  xmlns:ras="http://www.sample.com/xmlns/prod/sample"
  targetNamespace="http://www.sample.com/xmlns/prod/sample">
  <element name="account" type="ras:AccountObject"/>
  <element name="product" type="ras:ProductObject"/>
  <complexType name="AccountObject">
    <sequence maxOccurs="1" minOccurs="1">
      <element maxOccurs="1" minOccurs="0" name="accountId" type="int"/>
      <element maxOccurs="1" minOccurs="0" name="accountName" type="string"/>
      <element maxOccurs="1" minOccurs="0" name="valid" type="boolean"/>
    </sequence>
  </complexType>
  <complexType name="ProductObject">
    <sequence maxOccurs="1" minOccurs="1">
      <element maxOccurs="1" minOccurs="1" name="pid" type="int"/>
      <element maxOccurs="1" minOccurs="0" name="productName" type="string"/>
      <element maxOccurs="1" minOccurs="0" name="description" type="string"/>
      <element maxOccurs="1" minOccurs="0" name="stock" type="int"/>
    </sequence>
  </complexType>
</schema>
```

Table 2. Map input properties

Field Name	Description
serviceName	This is the name of the OData ReST API and it will be part of the URL. The value of this property must be same as the value of "URL (Path After Hostname)" property in the Configure panel of HTTP "Receive Request" activity. When URL with this name (for example: http://host/serviceName) is hit, it gives the service document in the response.
protocol	The protocol supported by your OData ReST API. This value need to be defaulted to one of the two supported values (HTTP or HTTPS).
host	The host on which the API is running. The value for this property must be mapped from the output of HTTP "Receive Request" activity.
method	The http method of the request. The value for this property must be mapped from the output of HTTP "Receive Request" activity.
uri	The uri of the http request. The value for this property must be mapped from the output of HTTP "Receive Request" activity.
Accept	The Accept header value. The value of this property can be set to default value or mapped from the output of HTTP "Receive Request" activity. Supported values are application/json and application/xml.

Field Name	Description
Content-Type	The Content-Type header value. The value of this property can be set to default value or mapped from the output of HTTP "Receive Request" activity. Supported values are application/json and application/xml.
PrimaryKeys	<p>The fields which need to be marked as primary keys in the selected business data structures. This property is string array type and can take multiple values to support composite primary keys.</p> <p>The syntax of the field values is given below.</p> <p>syntax: objectName:fieldName</p> <p>For example: For the schema provided above, the values can be account:accountId or product:pid</p>
readODataInputPayload	The OData request payload which needs to be passed for POST, PUT and PATCH http methods. The value of this property must be mapped from the body property of the HTTP "Receive Request" output.
readODataHttpHeadersInput	The properties can be mapped from the header output of the HTTP "Receive Request" activity.

Some of the properties in the response are same as the properties available in the input. Other Map Output properties are explained below:

Table 3. Map output properties

Field Name	Description
isMetadataDocumentRequest	When this property is true, it indicates that the request call (/serviceName/\$metadata) is for metadata document and response metadata document is available in the property "metadataDocument"
metadataDocument	This property contains the metadata document when /serviceName/\$metadata call is made.
isServiceDocumentRequest	When this property is true, it indicates that the request call (/serviceName) is for service document and response service document is available in the property "serviceDocument"
serviceDocument	This property contains the service document when /serviceName call is made.
resourcePath	This property contains the url path of the call.
entities	This property is of type string array and contains the entity set name(s) requested in the url. For example, if the serviceName is /test and selected business data structure is account (from above schema) then the url to get all the account details is http://hostname/test/accounts. In this example the entity set name is accounts.
fieldName	If the request for a field name present in a business data structure then the name of the field will be present in this property. For example if the URL requested is http://hostname/test/accounts(5)/accountName, the value of fieldName will be accountName.
additionalpath	If there is any additional token like \$value or \$count in the request url, then this value will be present in this property.
primaryKeys	<p>If the request url contains primary keys, then that information is present in this field.</p> <p>URL examples:</p> <p>http://hostname/test/accounts(5)</p> <p>http://hostname/test/salesorder(orderid='so1',name='ask')</p> <p>The primaryKeys structure will contain field name, value, and the data type of the primary key.</p>
readODataHttpHeadersOutput	Contains header information which was sent as part of the request.
readODataQueryParametersOutput	Contains the standard query parameters defined by OData and any additional query parameters.
readODataOutputPayload	If the payload is sent as part of the request (for POST and PUT operations), the payload is parsed and is populated in the response business data structure.

Parent topic: [Overview of OData Activities](#)

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## Write OData Activity

This activity takes the output of Read OData activity as input along with other details like payload, http status code etc and generates the output which needs to be passed back as response.

### Configuration Properties for the Write OData activity

Table 1. Configure panel properties

Field Name	Description
OData version	The OData version to be used by this activity. The same version need to use across all the activities in a single orchestration. The only version supported currently is 4.0.
Select Input data	<p>Select one of the options on how to provide the business data structure to the Read OData activity. The OData API is created based on this business structure(s) provided.</p> <ul style="list-style-type: none"> <li><b>Existing XML Schema:</b> Select this option to browse an existing schema available in the orchestration. Only one object can be selected with this option which means the OData API will be supporting only one top level object. This option is used if OData API need to be exposed by Cast Iron orchestrations.</li> <li><b>Endpoint URL (OData API):</b> Select this option to talk to an external OData API application. In this case Cast Iron is acting as client. The service root URL of the external application need to be provided. This option is not supported as of version 7.5.1 and will be added in future versions.</li> <li><b>New XML schema to support multiple Entities:</b> Select this option to support multiple top level objects in the OData API. An XML schema containing one or more global elements need to be pasted in the text area provided. This option is used if OData API need to be exposed by Cast Iron orchestrations. For example, refer to the sample XML schema given below.</li> </ul>

A sample XML schema containing account and product objects is given as an example.

```
<?xml version="1.0" encoding="UTF-8"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
  xmlns:ras="http://www.sample.com/xmlns/prod/sample"
  targetNamespace="http://www.sample.com/xmlns/prod/sample">
  <element name="account" type="ras:AccountObject"/>
  <element name="product" type="ras:ProductObject"/>
  <complexType name="AccountObject">
    <sequence maxOccurs="1" minOccurs="1">
      <element maxOccurs="1" minOccurs="0" name="accountId" type="int"/>
      <element maxOccurs="1" minOccurs="0" name="accountName" type="string"/>
      <element maxOccurs="1" minOccurs="0" name="valid" type="boolean"/>
    </sequence>
  </complexType>
  <complexType name="ProductObject">
    <sequence maxOccurs="1" minOccurs="1">
      <element maxOccurs="1" minOccurs="1" name="pid" type="int"/>
      <element maxOccurs="1" minOccurs="0" name="productName" type="string"/>
      <element maxOccurs="1" minOccurs="0" name="description" type="string"/>
      <element maxOccurs="1" minOccurs="0" name="stock" type="int"/>
    </sequence>
  </complexType>
</schema>
```

Table 2. Map input properties

Field Name	Description

Field Name	Description
serviceName	This is the name of the OData ReST API and it will be part of the URL. The value of this property must be same as the value of "URL (Path After Hostname)" property in the Configure panel of HTTP "Receive Request" activity. When URL with this name (for example: http://host/serviceName) is hit, it gives the service document in the response.
protocol	The protocol supported by your OData ReST API. This value need to be defaulted to one of the two supported values (HTTP or HTTPS).
host	The host on which the API is running. The value for this property must be mapped from the output of HTTP "Receive Request" activity.
method	The http method of the request. The value for this property must be mapped from the output of HTTP "Receive Request" activity.
Accept	The Accept header value. The value of this property can be set to default value or mapped from the output of HTTP "Receive Request" activity. Supported values are application/json and application/xml.
Content-Type	The Content-Type header value. The value of this property can be set to default value or mapped from the output of HTTP "Receive Request" activity. Supported values are application/json and application/xml.
resourcePath	This property contains the url path of the call and is mapped from the output of Read OData Activity.
entities	This property is of type string array and contains the entity set name(s) requested in the url and is mapped from the output of Read OData Activity. For example, if the serviceName is /test and selected business data structure is account (from above schema) then the url to get all the account details is http://hostname/test/accounts. In this example the entity set name is accounts.
fieldName	If the request for a field name present in a business data structure then the name of the field will be present in this property. The value of this property is mapped from the output of Read OData Activity. For example if the URL requested is http://hostname/test/accounts(5)/accountName, the value of fieldName will be accountName.
additionalpath	If there is any additional token like \$value or \$count in the request url, then this value will be present in this property and is mapped from the output of Read OData Activity.
primaryKeys	If the request url contains primary keys, then that information is present in this field and the value is mapped from the output of Read OData Activity.  URL examples:  http://hostname/test/accounts(5)  http://hostname/test/salesorder(orderid='so1',name='ask')  The primaryKeys structure will contain field name, value, and the data type of the primary key.
status	Contains the HTTP status code which is returned in the response for DELETE operation.
writeODataInput	The business object structure that has to be serialized and returned in the response.
writeODataQueryParametersInput	The query parameters that needs to be applied on the response data. The values are mapped from the Read OData output.
writeODataHttpHeadersInput	The Http headers that needs to be applied on the response data. The values are mapped from the Read OData output.

Table 3. Map output properties

Field Name	Description
writeODataOutput	The data that needs to be sent as a response. It contains the HTTP status code, HTTP message, and response payload.
writeODataHttpHeadersOutput	This property contains the HTTP headers that needs to be sent as response.

Parent topic: [Overview of OData Activities](#)

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## Mapping of XML Schema and OData Entity Data Model (EDM) datatypes

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Following is the mapping between XML Schema and OData EDM datatypes:

Table 1. XML Schema and OData EDM datatypes mapping

XML Schema datatypes	OData EDM datatypes	Remarks
string	Edm.String	
boolean	Edm.Boolean	
hexBinary	Edm.Binary	
base64Binary	Edm.Binary	
byte	Edm.SByte	
short	Edm.Int16	
int	Edm.Int32	
integer	Edm.Int64	
long	Edm.Int64	
float	Edm.Single	
double	Edm.Double	
decimal	Edm.Decimal	
unsignedInt	Edm.Int64	
unsignedShort	Edm.Int32	
unsignedByte	Edm.Int16	
date	Edm.Date	The format while mapping this data must be YYYY-MM-dd. For example, 2015-11-25
dateTime	Edm.DateTimeOffset	The format while mapping this data must be YYYY-MM-dd'T'HH:mm:ss. For example, 2015-11-25T20:15:45
time	Edm.TimeOfDay	The format while mapping this data must be HH:mm:ss. For example, 20:15:45
duration	Edm.Duration	The format while mapping this data must be PnYnMnDTnHnMs. For example, PT1004199059S, PT130S, PT2M10S, P1DT2S

Note: Any other datatype will be treated as a string in Cast Iron.

**Parent topic:** [Overview of OData Activities](#)

## Apply XSLT activity

---

You can use the Apply XSLT activity to transform XML data, stored in one XML variable, to XML data, stored in another XML variable, using the specified XSLT stylesheet.

### About this task

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The Apply XSLT activity transforms XML data, stored in one XML variable, to XML data, stored in another XML variable, using the specified XSLT stylesheet. The XSLT stylesheet is created outside Studio.

For example, if you have a XSLT stylesheet that converts XML data, valid to one XML Schema, to XML data, valid to a second XML Schema, you can create an Apply XSLT activity that calls this XSLT stylesheet to do this conversion in your orchestration during run time.

To create an Apply XSLT activity:

### Procedure

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1. [Upload](#) the XSLT stylesheet into the project.
2. [Upload](#) the XML Schemas or DTD files that define the input and output XML variables.
3. [Create](#) the following two XML variables:
  - o a variable to hold the input XML data based on a XML Schema or DTD.
  - o a variable to hold the output XML data based on a different XML Schema or DTD.
4. Add the Apply XSLT activity to your orchestration:
  - a. [Create](#) or open an orchestration. A graphical representation of the orchestration is displayed.
  - b. Select the Activities tab and expand the Transform folder.
  - c. Drag the Apply XSLT activity onto the orchestration
5. Configure the Apply XSLT activity:
  - a. In the Pick Stylesheet task, for the Stylesheet field click Browse. The Project Explorer is displayed.
  - b. Select the appropriate stylesheet and click OK. The stylesheet is displayed.
  - c. In the Checklist, select Set Input & Output.
  - d. In the Input pane, select Browse. The Select Variable pane is displayed.
  - e. Select a variable and click OK.
  - f. In the Output pane, select Browse. The Select Variable pane is displayed.
  - g. Select a variable and click OK.

**Parent topic:** [Transform Activities](#)

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## Logic Activities

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- [Logic activities overview](#)  
Logic activities control the flow of a orchestration.
- [Terminate activity](#)  
The Terminate activity stops all further orchestration job processing in the current branch.
- [Pick activity](#)  
The Pick activity determines what starter activity to launch based on the action that has occurred during run time.
- [If..Then activity](#)  
The If..Then activity tests the Where expression in the If branches to determine what branch of the If..Then activity to run.

- [Try activity](#)  
The Try... activity attempts to run the activity or activities in the main Try branch.
- [Group activity](#)  
Use this activity to group a set of activities in an orchestration. As a group, you can name, add comments, and collapse the block of activities as one entity.
- [While Loop activity](#)  
The While Loop activity initiates and continually processes any associated activities for as long as the specified condition evaluates to true.
- [For Each activity](#)  
The For Each activity iterates through recurring elements of a variable, performing other activities during each iteration cycle.
- [Split activity](#)  
The Split activity is a variation of the For Each activity that can be used to break up very large messages to improve performance
- [Break Loop activity](#)  
During run time, when a Break Loop activity is processed, the processing flow breaks out of the current looping activity and continues to the next activity in the orchestration
- [Continue activity](#)  
The Continue activity jumps to the next item to process in the loop and is typically placed after an If or an If..Then activity.
- [Adding branches to the If..Then activity](#)  
The If..Then activity supports multiple branches to handle different conditions.
- [Moving branches](#)  
You can change the position of a branch within an If..Then activity or a Pick activity.
- [Defining conditions](#)  
You can specify conditions in If..Then and While Loop activities to define a criteria that must be met before the orchestration continues with that branch.
- [Basic condition syntax](#)  
There are various types of conditions that you can use to evaluate an XPath expression.
- [bpws:getVariableData function](#)  
Use the bpws:getVariableData function to create conditions to access variable data.
- [Basic XPath expressions](#)  
XPath expressions are used in orchestrations and flat file schema definitions when you need to identify one or more nodes in a message or variable in order to access data or determine whether a condition has been met.
- [Testing XPath expressions](#)  
Use the XPath Evaluator to test XPath expressions against test XML documents.

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## Logic activities overview

Logic activities control the flow of a orchestration.

Logic activities provide the functionality described in the following table:

Activity	Description
Break Loop	Breaks out of a For Each, Split, or While Loop activity.
Continue	Jumps to the next item to process in a For Each, Split, or While Loop activity.
For Each	Iterates through repeating nodes of a variable, performing one or more activities during each iteration cycle.

Activity	Description
If..Then	Routes messages based on conditions to different branches.
Pick	Receives messages from one or more activities and selects one of them to start an orchestration.
Split activity	Iterates through repeating sections of a variable, performing one or more activities during each iteration cycle. The Split activity is a variation of the For Each activity that can be used to break up very large messages to improve performance.
Terminate	Stops all further processing of the current orchestration job.
Try activity...	Attempts to run the activity or activities in the main Try branch. If any exception occurs when running the activity or activities in the main Try branch, the CatchAll branch is run.
While Loop	Initiates and continually processes any children activities for as long as a specified condition is true.

**Parent topic:** [Logic Activities](#)

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## Terminate activity

The Terminate activity stops all further orchestration job processing in the current branch.

### About this task

This activity is commonly used in the If and Else branches of an If..Then activity to stop orchestration processing after an error occurs.

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## Pick activity

The Pick activity determines what starter activity to launch based on the action that has occurred during run time.

### About this task

For example, a Pick activity could contain three branches, one that contains a Get Inserted Rows activity, one that contains a Get Deleted Rows activity, and the other that contains a Get Updated Rows activity. If an update event occurs on the database, an instance of the orchestration is created and branch that contains the Get Updated Rows activity is called.

When you add a Pick activity to an orchestration, two Receive branches are automatically added. You can add additional receiveEvent nodes to the Pick activity. A Pick activity is always a starter activity and in each branch of a Pick activity the first activity must be a starter activity.

The Receive branch contains a receiveEvent node and an empty placeholder. Each message is defined in a Receive branch that can contain other activities to handle that specific message.

Delete Receive branches if you do not want a receive operation to be a part of the Pick activity. Deleting the Receive node removes the entire Receive branch.

Attention: If a variable is not initialized in every branch of a Pick activity, the variable cannot be used outside the scope of a Pick activity. Attempting to use a variable outside the Pick activity that is not initialized in every branch results in an invalid orchestration. For example, a Pick activity has two branches, one that contains a Get Updated Rows activity and one that contains a Get Inserted Rows activity. The Get Updated Rows activity returns the data to a variable named updateResult while the Get Inserted Rows activity returns the data to a variable named insertResult. These variables can only be used within the Pick activity and cannot be used in the activities that follow after the Pick activity in the orchestration. If the output of each activity is based on the same schema, you can however define one variable that both activities initialize. If all branches in a Pick activity initialize the variable, the scope of the variable includes all activities after the Pick activity and is not limited to the scope of the Pick activity.

To use a Pick activity complete the following steps:

## Procedure

---

1. Drag the Pick activity from the Logic folder in the Activities tab onto the orchestration.
2. Select an inbound activity or the Schedule Job activity and drag it onto the receiveEvent placeholder.
3. To add an activity to the branch, drag the activity onto the empty placeholder.

## Adding, editing, or deleting condition branches

---

The Pick activity can have several branches to process complex conditions

### To add a branch to the Pick activity:

1. Click the Pick node.
2. Select Add Receive Branch from the list.

### To edit a branch or activity name complete the following steps:

1. Select an activity or branch.
2. Select Edit from the list. The name is displayed in a box.
3. Select the current name, then enter the new one.
4. Press Enter.

### To delete an activity or branch complete the following steps:

1. Select an activity or branch.
2. Select Delete from the list.

Note: If you delete a condition branch, all activities within the condition branch are also deleted.

**Parent topic:** [Logic Activities](#)

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## If..Then activity

---

The If..Then activity tests the Where expression in the If branches to determine what branch of the If..Then activity to run.

## About this task

By default, each If..Then activity includes an If branch and an Else branch. You can [add if additional branches](#) to an If..Then activity.

When the Where expression in the If branch is equal to true, processing proceeds down that If branch of the orchestration. If an If..Then activity contains multiple If branches, the Where expressions in the If branches are tested in sequential order. When none of the Where expressions in the If branches are satisfied, processing proceeds down the Else branch.

You also have the option of [copying a branch](#) or [Else](#) branch from another If..Then activity.

To use an If..Then activity complete the following steps:

### Procedure

1. Open the Activities tab and the Logic folder.
2. Drag the If..Then activity onto the orchestration.
3. Add more If branches as required.
4. Configure the If and Else branches.

## Configure an IF branch

1. Select the If branch. The Expression Builder opens.
2. [Define conditions](#) for the branch.
3. Drag an activity from the Activities tab onto the empty placeholder.

## Configuring an Else branch

1. Drag an activity from the Activities tab onto the empty placeholder.

## Copying and pasting If nodes

1. Click the If branch and select Copy from the list.
2. Click on the If..Then activity in the orchestration and select Paste from the list.  
Note: If and Else branches cannot be pasted outside of an If..Then activity. You cannot replace an If branch with an Else branch.

## Copying and pasting Else nodes

Else branches can be pasted into a If..Then activity only if the If..Then activity does not already contain an Else branch.

1. Click the Else branch and select Copy from the list.
2. Click the If..Then activity and select Paste from the list.

## Adding branches

1. Click the If..Then activity and select Add If.
2. [Define the conditions](#) and the activities for the branch.

## Editing an activity or branch

1. Select the activity or branch to edit existing properties.
2. Select Edit from the list.

## Deleting an activity or branch

1. Select the activity or branch to edit existing properties.
2. Select Delete from the list.  
Note: If you delete a condition branch, all activities within the condition branch are also deleted.

**Parent topic:** [Logic Activities](#)

## Try activity

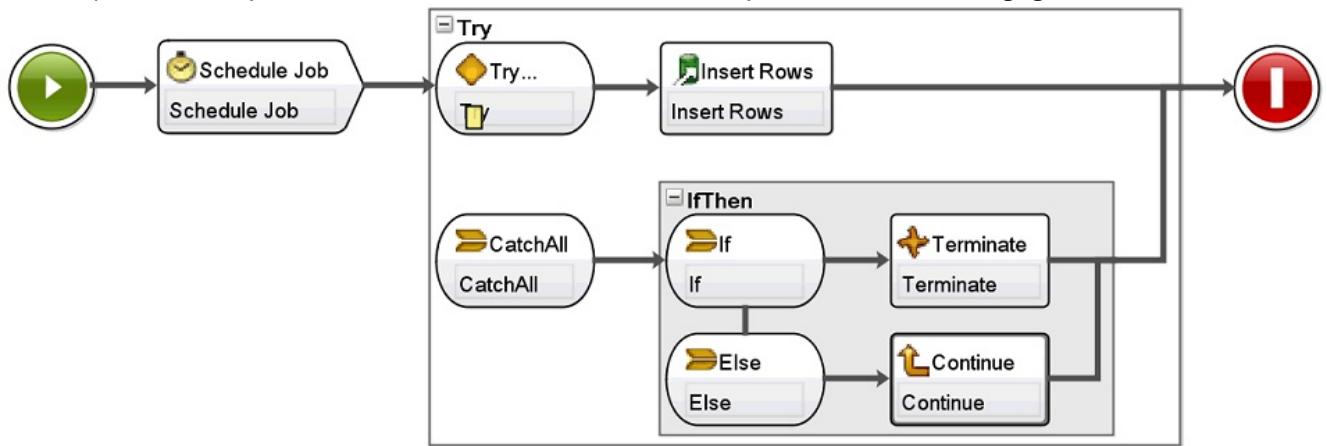
The Try... activity attempts to run the activity or activities in the main Try branch.

### About this task

If any exception occurs while running the activity or activities in the main Try branch, the CatchAll branch is run.

Right-clicking the mouse on the background creates a new CatchAll branch.

For example, the main Try branch can call the Database Insert Rows activity as shown in the following figure:



If the Database Insert Rows activity fails and throws an exception, the activity or activities in the CatchAll branch are run. In this example orchestration, when an exception is thrown by the Database Insert Rows activity, the Terminate activity runs thus terminating the current orchestration job.

**To add and configure a Try... activity, complete the following steps:**

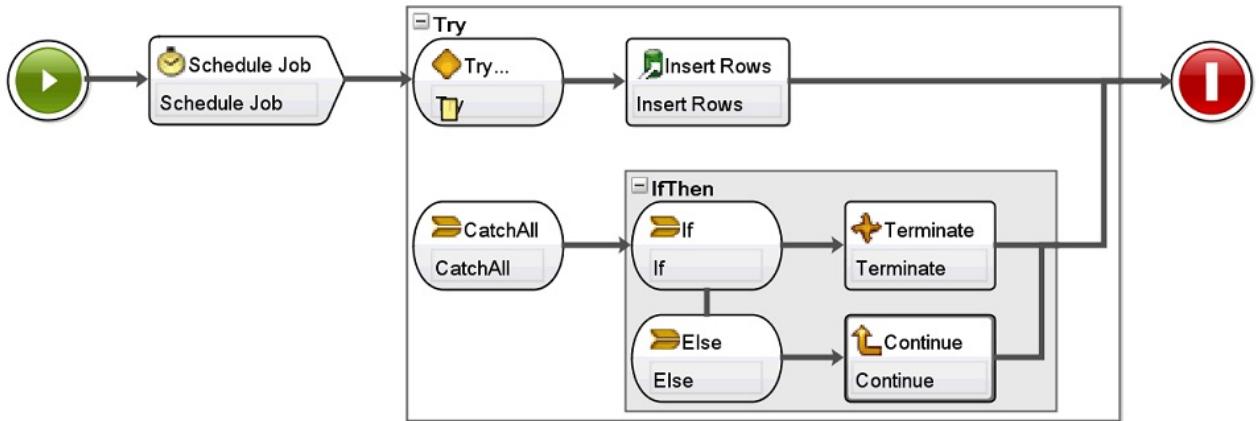
### Procedure

1. Open the Activities tab and the Logic folder.
  2. Drag the Try... activity onto the orchestration. The Try... activity is displayed with the following branches:
    - o Try... branch
    - o CatchAll branch
- When the first CatchAll branch is created, the following variables are automatically created:
- o faultName - During run time, the faultName variable contains the name of the exception thrown by an activity in the Try branch.
  - o faultData - During run time, the faultData variable contains the error message associated with the exception. This additional information is only currently returned for the Web Services activities. For Web Services activities, the faultData variable contains the fault.
  - o faultInfo - During run time, the faultInfo variable returns the following nodes:
    - name - During run time, the faultInfo/name node contains the name of the exception thrown by the activity in the Try branch. The faultInfo/name node is a xsd:QName type.
    - message - During run time, the faultInfo/message node contains the error message associated with the exception. The faultInfo/message node is a xsd:string type.
    - activityId - During run time, the faultInfo/activityId node contains the activity ID that uniquely identifies the activity where the exception occurred. The faultInfo/activityId node is a xsd:int type.
    - activityName - During run time, the faultInfo/activityName node contains the activity name where the exception occurred. The faultInfo/activityName node is a xsd:string type.
    - faultTime - During run time, the faultInfo/faultTime node contains the time the error occurred. The faultInfo/faultTime node is a xsd:dateTime type.

Note: The exception name returned by an activity in the faultName variable and the faultInfo/name node might change in a future release.

3. Configure the Try... and CatchAll branches by dropping activities from the Activities tab to the branches of the Try... activity as shown in the preceding and following figures.

Attention: The scope of the faultName, faultData, and faultInfo variables is limited to the CatchAll branch of the Try... activity. This scope limitation means that the value of these variables is only guaranteed to be valid within the CatchAll branch. For example, if you add an If...Then activity that tests the value of the faultName variable, the If..Then activity must be placed inside the CatchAll branch of the Try... activity as shown in the following figure:



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## Group activity

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Use this activity to group a set of activities in an orchestration. As a group, you can name, add comments, and collapse the block of activities as one entity.

### About this task

---

When you add a CatchAll branch to the group, the CatchAll branch runs as an exception occurs in the group of activities.

To use the Group activity complete the following steps:

### Procedure

---

1. In the Studio toolbox, click the Activities tab.
2. Expand the Logic directory.
3. Drag the Group activity onto the orchestration.
4. Optional: Add a CatchAll branch.
  - a. Right-click the Group activity. An option menu opens.
  - b. Select Add CatchAll Branch. The CatchAll branch is displayed in the Group activity.

**Parent topic:** [Logic Activities](#)

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## While Loop activity

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The While Loop activity initiates and continually processes any associated activities for as long as the specified condition evaluates to true.

### About this task

---

To define a While Loop activity complete the following steps:

### Procedure

---

1. Drag a While Loop activity from the Logic folder of the Activities tab onto the orchestration. The [Expression Builder](#) is displayed.
2. Use the Expression Builder to [define conditions](#) in the While Loop activity. You must define a condition that evaluates to false to ensure that the loop ends. The variables needed to iterate through the conditions you specify are automatically created.
3. Drag an activity from the Activities tab onto the empty placeholder inside of the While Loop activity, typically, For Each, While Loop, or Split. Use the Break Loop or Continue activities to control iterations in these activities

**Parent topic:** [Logic Activities](#)

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## For Each activity

---

The For Each activity iterates through recurring elements of a variable, performing other activities during each iteration cycle.

### About this task

---

When you drop a For Each activity onto an orchestration, Studio creates the following two variables:

- loopvalue\_X - During run time, as the For Each activity loops through a set of recurring elements, the loopvalue\_X variable contains the value of the current element.
- loopcounter\_X - During run time, as the For Each activity loops through a set of recurring elements, the loopcounter\_X variable contains the current count of the number of iteration cycles that have been processed by the For Each activity.

Where X is equal to the number of For Each activities that have been dropped on the orchestration. For example, when the first For Each activity is dropped on an orchestration, the variables called loopvalue\_1 and loopcounter\_1 are created.

Attention: Do not use the loopvalue\_X and loopcounter\_X variables outside of the For Each activity. The scope of these variables are limited to the For Each activity.

Â

To use a For Each activity complete the following steps:

### Procedure

---

1. Open the Activities tab and the Logic folder.
2. Drag the For Each activity onto the orchestration.
3. In the Variable Name field, select a variable containing the recurring element that you want to loop through in the For Each activity.

4. In the Element Name field click [...] to browse for the recurring element that you want to loop through in the For Each activity. The Select Recurring Element window is displayed.
5. Select a recurring element and click OK.

## Results

---

An [XPath expression](#) that refers to the recurring element is displayed in the Element Name field. The Variable Name field is automatically populated with the loopvalue\_X variable created for this For Each activity. You can edit the generated XPath expression in the Element Name field.

You can add other activities within the For Each loop. Use the Break Loop and Continue activities to control iterations of the For Each loop.

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## Split activity

---

The Split activity is a variation of the For Each activity that can be used to break up very large messages to improve performance.

During runtime, the Split activity iterates through recurring elements of a variable, processing activities on each iteration. . With the Split activity, you define how many recurring elements are returned with each loop, while the For Each activity always returns one recurring element each loop.

**To use a Split activity complete the following steps:**

1. Open the Activities tab.
2. Open the Logic folder in the Activities tab.
3. Drag the Split activity onto the orchestration.
4. Complete the properties fields displayed in the Summary pane.

You can add other activities within the Split loop as required. Use the Break Loop or Continue activities to control iterations of the Split loop.

## Properties

---

Complete these fields for the Split activity:

Field	Description
Activity Name	Specifies the name of the activity.
Variable Name	Displays a list of defined variables for an orchestration. Select a variable that contains the recurring element to loop through.
Element Name	Specifies the recurring element to loop through. Click [...] to browse for a recurring element. The Select Recurring Element dialog box is displayed. Select a recurring element and click OK. An <a href="#">XPath expression</a> that refers to the recurring element is displayed in the Element Name field. You can edit the generated XPath expression in the Element Name field.
Return __ Recurring Elements Per Loop	Specifies the number of recurring elements to returned with each loop. The recurring elements are stored in the loopvalue_X variable.
Variable to Store the Result	

Field	Description
Variable Name	Specifies the variable that holds the set of recurring elements returned with each loop. The Variable Name field is populated with the loopvalue_X variable which is created automatically for this activity. Attention: Do not use the loopvalue_X variable outside of the Split activity. The scope of these variables are limited to the Split activity.

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## Break Loop activity

During run time, when a Break Loop activity is processed, the processing flow breaks out of the current looping activity and continues to the next activity in the orchestration

### About this task

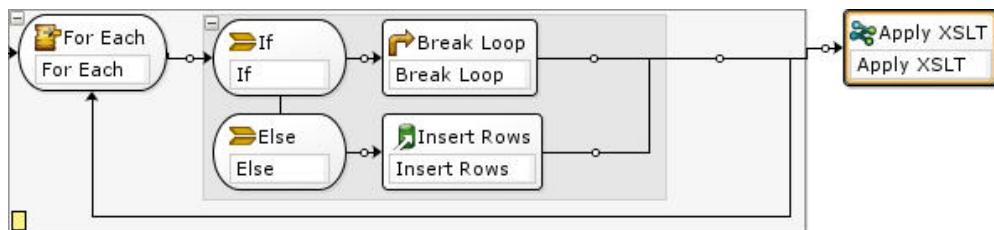
The Break Loop activity can only be used in any of the following looping activities: For Each, Split, and While Loop, as shown in the following examples.

To use a Break activity:

### Procedure

1. Open the Activities tab and the Logic folder.
2. Drag a For Each, Split, or While Loop activity onto the orchestration.
3. Drop the Break Loop activity into the looping activity, as shown in the following example:
  - o To break out of a loop when a condition is true, see Example 1.
  - o To break out of a loop after a single iteration, see Example 2.

### Example 1 - Break out of a loop when a condition is true

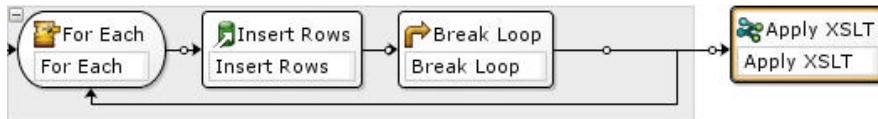


1. Drag an If..Then activity into the looping activity you set up, as shown in the preceding figure.
2. Drag an action activity (for example: the Insert Rows activity) onto the empty placeholder to the right of the Else node.
3. Configure the action activity.
4. Click the If node and enter a condition in the Expression Builder.
5. Drag a Break Loop activity onto the empty placeholder to the right of the If node.

### At run time:

- If the condition in the If activity evaluates to true, the Break Loop exits out of the looping activity.
- If the condition in the If activity evaluates to false, the Else branch is started and the action activity (for example: the Insert Rows activity) is run.

### Example 2 - Break out of a loop after a single iteration runs



1. Drag an action activity (for example, the Insert Rows activity) onto the empty placeholder inside of the looping activity you selected.
2. Configure the action activity.
3. Drag a Break Loop activity onto the empty placeholder inside of the looping activity.

#### At run time:

- The action activity (for example: the Insert Rows activity) runs only once before the Break Loop exits out of the looping activity.

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## Continue activity

The Continue activity jumps to the next item to process in the loop and is typically placed after an If or an If..Then activity.

### About this task

The Continue activity can only be used inside one of the following looping activities: For Each, Split, and While Loop activities.

To use a Continue activity complete the following steps:

### Procedure

1. Open the Activities tab and the Logic folder.
2. Drag a For Each, Split, or While Loop activity onto the orchestration.
3. Set up the looping activity to continue processing as shown in the following example.

Example - Continue processing when a condition is true

- a. Drag an If..Then activity into the looping activity you set up in step 1.
- b. Drag an action activity (for example: an Insert Rows activity) onto the empty placeholder to the right of the If node.
- c. Configure the action activity.
- d. Click the If node and enter a condition in the [Expression Builder](#).
- e. Drag a Continue activity onto the empty placeholder to the right of the Else node.

#### At Run Time:

- o If the condition in the If evaluates to true, the action activity runs.
- o If the condition in the If evaluates to false, the Continue activity in the Else branch runs and jumps to the next item in the looping activity.

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# Adding branches to the If..Then activity

---

The If..Then activity supports multiple branches to handle different conditions.

## About this task

---

To add additional If and Else branches complete the following steps:

## Procedure

---

1. Select the If..Then activity in the orchestration
2. Right-click and select one of these options:
  - o Add If â€“ to add another branch with a condition.
  - o Add Else â€“ to add a final, catch-all branch to use when a message does not match any of the conditions in the If statements. (This option is only available if there is no Else branch displayed.)
  - o Double-click the If icon and enter a name for the branch.
  - o Use the Expression Builder to [define the conditions](#) for the branch.

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# Moving branches

---

You can change the position of a branch within an If..Then activity or a Pick activity.

## About this task

---

To move a branch within an If..Then activity or a Pick activity complete the following steps:

## Procedure

---

1. Select the branch you want to move. For an If..Then activity, select one of the If nodes; for a Pick activity, select one of the receiveEvent nodes.
2. To move the branch use one of the following actions:
  - o Select Orchestration > Go Up or Orchestration > Go Â Down from the toolbar menu.
  - o Right-click the branch and select Go Up or Go Down from the list.

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# Defining conditions

---

You can specify conditions in If..Then and While Loop activities to define a criteria that must be met before the orchestration continues with that branch.

In most cases, conditions test the value of data in a message or in other variables defined within the orchestration. Use the Expression Builder to define conditions.

## Expression Builder

---

The Expression Builder is used to define conditions for If..Then and While Loop activities. It is displayed beneath the orchestration, in the Property pane, when you select an If..Then or While Loop activity in the orchestration.

These conditions are boolean expressions that describe the criteria against which the Integration Appliance compares a message. During runtime, the result of this comparison determines the execution path through the orchestration. For a complete list of operators that you can use in the Expression Builder, see [Valid Operators for Conditions](#). For more information about the order precedence of the conditions in the Expression Builder, see <http://www.w3.org/TR/xpath#booleans>.

The Expression Builder allows you to add, delete, and edit conditions as well as change their processing order.

To add a condition:

1. Click Add. A new condition displays beneath the existing list of conditions.
2. To or the new condition with the previous condition in the link, right-click and select or from the list.

To delete a condition:

- Select the condition, then click Delete.

To edit a condition:

- Select any field in the Expression Builder and make your edits. If the Expression Builder is not displayed, click Use Builder. You can edit left-hand expressions, select operators, and right-hand expressions.

-OR-

- Click Advanced to directly edit XPath expression that defines the condition. For more information, see [Basic Condition Syntax](#), [Basic XPath Expressions](#), and [bpws:getVariableData Function](#)

Note: Use the XPath Evaluator to [test XPath expressions](#).

To change the processing order of the conditions:

- Select a condition in the Expression Builder and click the up or down arrows.

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## Basic condition syntax

---

There are various types of conditions that you can use to evaluate an XPath expression.

The most common operator used to evaluate an expression is = (equals), but you can use any valid XPath operator. See [Basic XPath Expressions](#) for a list of valid XPath operators.

The following examples demonstrate how to use various conditions to evaluate an XPath expression.

### Example 1: Using string literals

---

String literals must be enclosed in quotation marks as shown in this example:

```
bpws:getVariableData('PatientInfo')/PV1/Department = 'ICU'
```

## Example 2: Accessing variable data

---

Use the [bpws:getVariableData function](#) to access variable data

### Using string literals in the getVariableData function:

The following example evaluates string nodes from two variables. The variable names in the bpws:getVariableData function are string literals.

```
bpws:getVariableData('PatientInfo')/PV1/Department = bpws:getVariableData('Orders')/PID/PtDept
```

### Using numeric literals in the getVariableData function:

To evaluate numeric literals you must cast either one or both sides of the expression. For example:

```
number(bpws:getVariableData('PatientInfo')/PV1/Department) = bpws:getVariableData('Orders')/PID/PtDept
```

Â - OR -

```
number(bpws:getVariableData('PatientInfo')/PV1/Department) =  
number(bpws:getVariableData('Orders')/PID/PtDept)
```

## Example 3: Numeric literals

---

Numeric literals do not require quotation marks. Placing quotes around a numeric literal transforms it into a string literal.

### Valid numeric expression example:

```
number(bpws:getVariableData('PurchaseOrder')/PurchaseOrder/POTotal) >= 5000.00
```

### Invalid numeric expression example:

```
number(bpws:getVariableData('PurchaseOrder')/PurchaseOrder/POTotal) >= '5000.00'
```

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## bpws:getVariableData function

---

Use the bpws:getVariableData function to create conditions to access variable data.

It can be combined with an XPath expression identifying specific nodes within the variable.

For example:

- To access the data in the POTotal node in a variable named PurchaseOrder, you would enter:  
`bpws:getVariableData('PurchaseOrder')/PurchaseOrder/POTotal`
- To access the data in a primitive variable named ItemCount, enter: `bpws:getVariableData('ItemCount')`

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_bpws\\_getVariableData\\_Function.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_bpws_getVariableData_Function.html)

## Basic XPath expressions

---

XPath expressions are used in orchestrations and flat file schema definitions when you need to identify one or more nodes in a message or variable in order to access data or determine whether a condition has been met.

XPath is an XML standard that defines a grammar to identify nodes or sets of nodes (called node sets) in XML documents.

You can edit the default XPath expressions, generated in the following panes:

- In the Configure panes of the [For Each](#) and [Split activity](#) activities, an XPath expression is generated to define the recurring element. You can edit the default XPath expression displayed in the Element Name field.
- In the Configure panes of the [While Loop](#) and [If..Then](#) activities, an XPath expression is generated in the Expression Builder to define the conditions. You can edit the default XPath expression displayed by clicking Advanced.

XPath 2.0 is supported.

## Selecting nodes by path

---

XPath describes the location of XML elements and attributes as a path similar to URLs or directories on your local file system. Each element or attribute is a node in a tree that begins with the root node. The root node contains the entire tree, so any node within the tree can be found by following a path down the branches.

The basic syntax is:

```
/root-node/child-node/.../final-element-node  
/root-node/child-node/.../final-element-node/@attribute-node
```

You determine this path from the XML Schema that describes the messages.

XPath uses the @ symbol as a shorthand to identify attributes. Paths without @, or the attribute:: prefix, identify elements by default. For example:

Â /PackingSlip/PONumber/Item

identifies the Item element found inside PONumber in the PackingSlip root node.

## Node names and XML namespaces

---

Node names can also appear with namespaces, such as tns:OrderNumber or \*:Item. The portion of the name up to the colon is a prefix identifying a namespace and the colon is the delimiter between the namespace and the node's local name.

Namespaces are an XML standard used to uniquely identify elements or attributes when documents share content from several schemas. Cast Iron® Studio automatically assigns and manages namespaces for the XML Schemas used in configuration documents. Â

Note: Each schema within a WSDL definition can be defined by a namespace.

## Select nodes conditionally with predicates

---

You might occasionally want to select a node only if some condition is met. These selection conditions are known as predicates.

You define predicates inside brackets, such as:

```
/PV1/PatientDepartment[text()='Nursery']
```

This expression selects the PatientDepartment node only if the data in the node is Nursery.

```
/Order/OrderDetail/Item[5]
```

This expression selects the fifth Item node within OrderDetail.

## Valid operators for conditions

---

XPath expressions can also be boolean conditions that evaluate to true or false. These expressions can be used to select specific nodes or simply to identify a condition that must be met. You can use the [Expression Builder](#) to help you define conditions. XPath operators that can appear in expressions include:

- = equals
- != not equals
- < less than
- > greater than
- <= less than or equals
- >= greater than or equals

## Functions in XPath expressions

---

XPath also contains functions that allow you to manipulate data from nodes. This can be useful in building subject lines that contain some constant text plus dynamic data from messages. XPath functions can also be used to handle requirements such as trimming space or ensuring that a job key is a string datatype. Some of the common XPath functions include:

concat()

you can combine any number of strings and the data from nodes in the order you specify the parameters. You can specify XPath paths as parameters. Specify constant text strings within quote marks. For example:

```
concat('New Order # ',/Orders/Order/OrdNumber)
```

count()

you can count the number of nodes in the parameter you specify. Typically the parameter is an XPath path expression that identifies several nodes, such as all the Item nodes that are children of PODetail. For example:

```
count (/Orders/Order)
```

normalize-space()

trims all leading and trailing space characters from the input parameter and also normalizes all space within the input to single space characters and single line feeds. For example:

```
normalize-space (/Job/Address/Line1)
```

number()

converts the parameter to a number datatype. This function can be used to ensure that strings are treated as numbers. For example:

```
number (/PurchaseOrder/POTotal)
```

string()

converts the parameter to a string datatype. This function can be used to ensure that numeric or date nodes are treated as strings. For example:

```
string (/PurchaseOrder/VendorID)
```

translate()

replaces individual characters with other characters in the first parameter you specify. The second parameter is the character or characters to replace and the third parameter is the replacement characters. This function can be useful for ensuring that job keys are all uppercase, for example.

```
translate (/Issue/ShortDescr,  
'abcdefghijklmnopqrstuvwxyz',  
'ABCDEFGHIJKLMNOPQRSTUVWXYZ')
```

For a complete list of XPath functions, see the XPath Specification (<http://www.w3.org/TR/xpath>).

## Testing XPath expressions

---

You can [test your XPath Expressions](#) against XML test data using the XPath Evaluator.

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## Testing XPath expressions

---

Use the XPath Evaluator to test XPath expressions against test XML documents.

To bring up the XPath Evaluator window, select Tools > XPath Evaluator option from the Studio toolbar menu.

You can use the XPath Evaluator to test XPath expressions against XML files. You can edit the default XPath expressions, generated in the following panes:

- In the Configure panes of the [For Each](#) and [Split](#) activities, an XPath expression is generated to define the recurring element. You can edit the default XPath expression displayed in the Element Name field.
- In the Configure panes of the [While Loop](#) and [If..Then](#) activities, an XPath expression is generated in the Expression Builder to define the conditions. You can edit the default XPath expression displayed clicking Advanced.

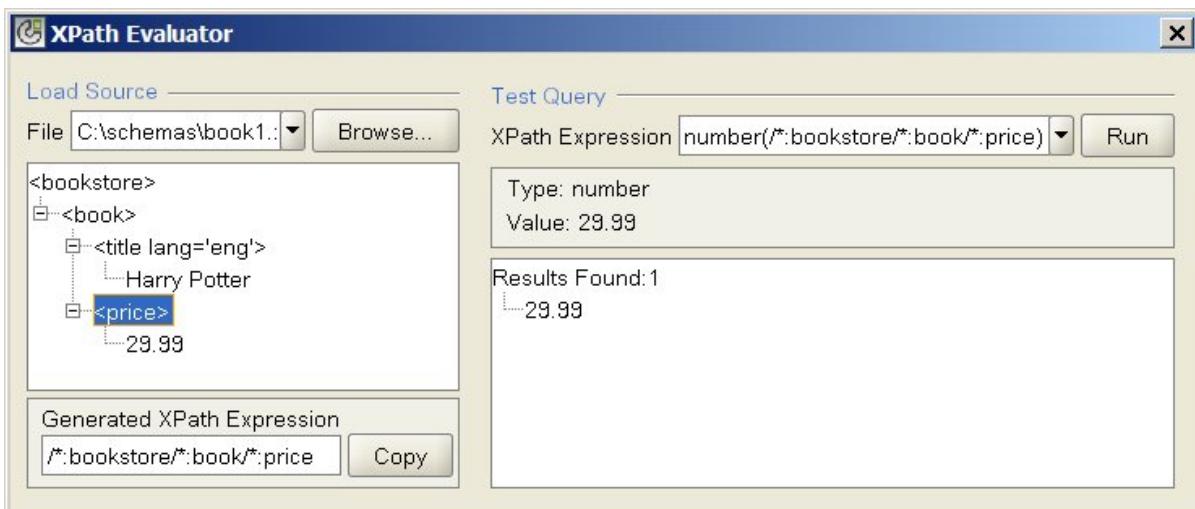
Note: XPath 2.0 is supported.

The following table describes the functionality of the XPath Evaluator dialog box.

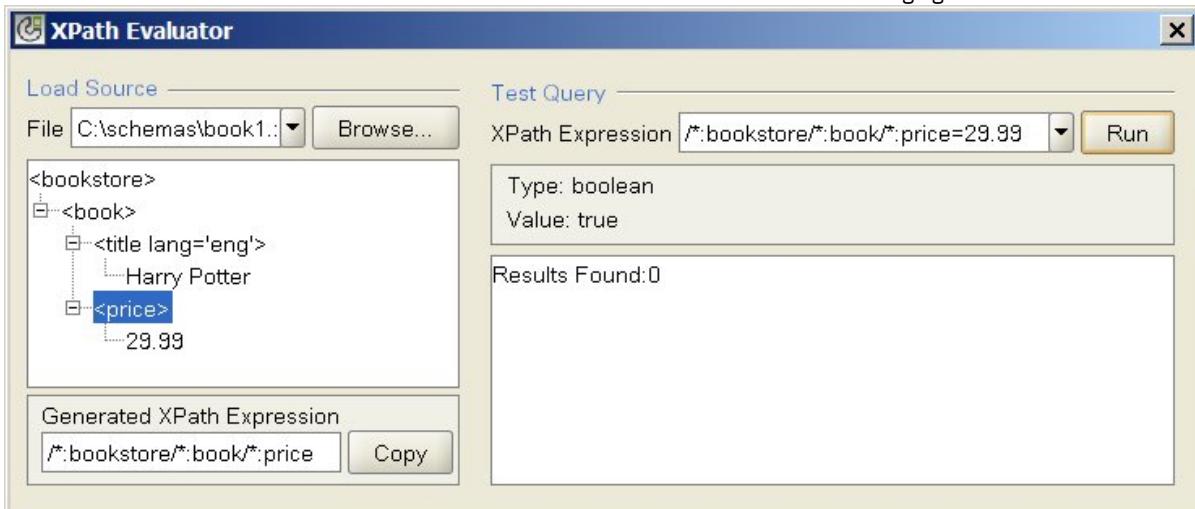
Field	Name Description
File	Specifies the directory location of the selected test XML file. Select the down arrow to select from the set of previously loaded XML files.
Browse..	Click Browse... to load the contents of the XML file from the file system.
Load Source	A graphical representation of the source XML elements to test against. Selecting a node in this text box generates an XPath expression that finds all occurrences of this element when this XPath expression is evaluated against the specified XML data.
Generated XPath Expression	XPath expression that is generated when an XML element is selected in the Load Source text box.
Copy	Copy the XPath Expression from the Generated XPath Expression field to the XPath Expression field.
XPath Expression	Specifies the XPath Expression used to evaluate or test against the XML data.
Run	Select Run to evaluate the XPath expression against the source XML test data. The results of the evaluation are displayed in the text box on the right side of the pane.

To evaluate an XPath expression complete the following steps:

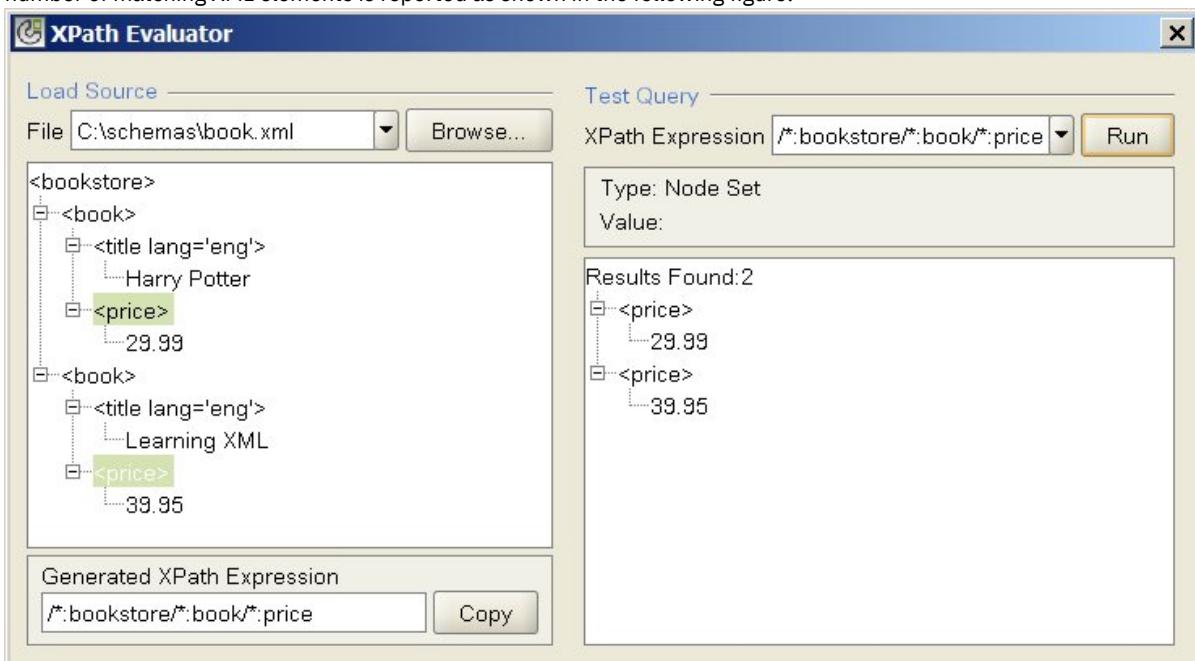
1. Select the Tools > XPath Evaluator option from the Studio toolbar menu. The XPath Evaluator window opens.
2. Click Browse... to load a test XML file from the file system. A graphical representation of the text XML elements shows in the Load Source text box.
3. To specify an XPath expression, choose from one of the following options:
  - Enter an XPath expression directly into the XPath Expression field.
  - Select an XML element in the Load Source text box and click Copy to copy the XPath expression from the Generated XPath Expression field to the XPath Expression field.
4. Click Run. The result of running the XML data against the XPath expression is displayed in the right bottom pane. The following types can be returned:
  - **number** – the value of the number is returned in the Value field as shown in the following figure:



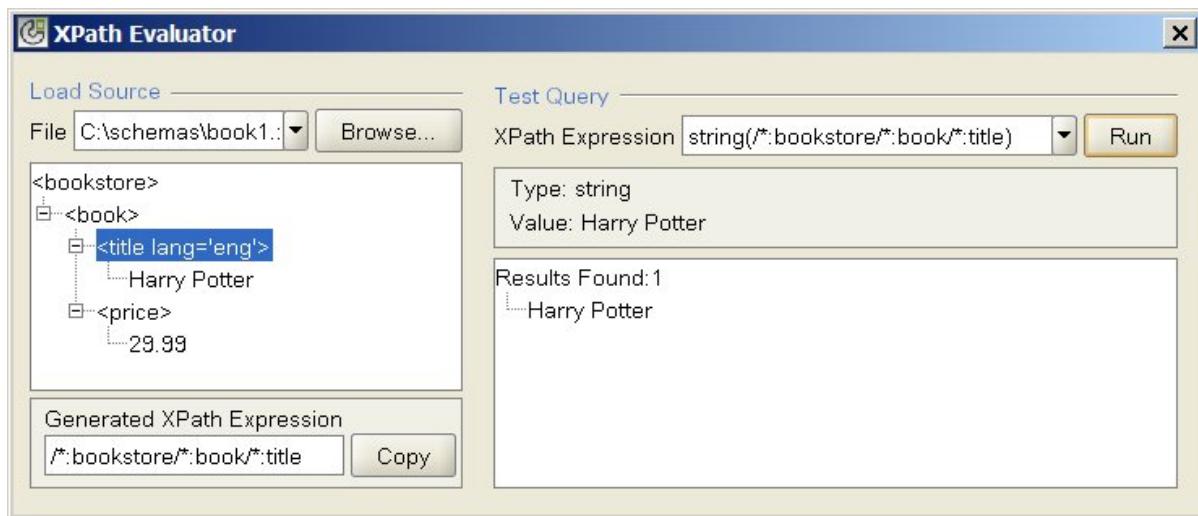
- o **boolean** – the value of the boolean is returned in the Value field as shown in the following figure:



- o **Node Set** – the XML elements that match those displayed in the XPath expression, the Value field is blank, and the number of matching XML elements is reported as shown in the following figure:



- o **string** – the value of the boolean is returned in the Value field as shown in the following figure:



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## Utilities Activities

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- [Create Job Keys Activity](#)  
The Create Job Keys activity sets the values of job keys dynamically during run time.
- [Creating Job Keys](#)  
You can associate job keys (or identify keys) with a specific orchestration job.
- [Log Message activity](#)  
You can use the Log Message activity to specify the alert levels and message text, which is displayed in the Integration Appliance orchestration monitoring logs and system logs.
- [Schedule Job activity](#)  
The Schedule Job activity is a starter activity that creates an instance of an orchestration at the specified date and time.

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## Create Job Keys Activity

---

The Create Job Keys activity sets the values of job keys dynamically during run time.

### About this task

---

After the orchestration job has run on the Integration Appliance, you can view the values of the job keys in the Jobs detail pane of the Web Management Console (WMC). In addition, you can search for orchestration jobs using the primary key in the WMC. For more information see the WMC online help.

To create and configure a Create Job Keys activity complete the following steps:

## Procedure

---

1. Create a Job Key by using the [Creating Job Keys](#) topic before configuring the Create Job Keys activity.
2. Add the Create Job Keys activity to your orchestration:
  - a. Create an orchestration using the [Creating an orchestration](#) topic, or open an existing orchestration. A graphical representation of the orchestration is displayed.
  - b. Select the Activities tab and expand the Utilities folder.
  - c. Drag the Create Job Keys activity onto the orchestration.
3. Configure the Create Job Keys activity:
  - a. In the Checklist, select Map Inputs.
  - b. You can either set the default value of your job keys or map variables to the job keys, as described in steps 4 and 5.
4. Set a default value for the job keys:
  - a. In the To Activity pane of the Map Outputs task, right-click the job key and select Define Default Value from the list. The Define Default Value dialog box is displayed.
  - b. Enter the required value in the Default Value field.
  - c. Click OK.

During run time, the values of the job keys are set to the values specified in the Default Value field.
5. Map variables to the job keys:
  - a. In the From Orchestration pane, click Add. The Add Variable dialog box is displayed. If any job keys have been created, they are displayed in the To Activity pane.
  - b. Select variables. These variables supply the values of the job keys during run time.
  - c. Click OK.
  - d. Create mappings for each job key. From the From Orchestration pane, drag each variable to the corresponding job key in the To Activity pane.

During run time, the value of the job keys are set to the values of the corresponding variables.

**Parent topic:** [Utilities Activities](#)

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## Creating Job Keys

---

You can associate job keys (or identify keys) with a specific orchestration job.

### About this task

---

You create job keys from the Job Identification pane in Studio. To launch the Job Identification pane, select Orchestration > Properties option from the Studio toolbar menu. In the Job Identification pane, define the name and type of the job key. You can also specify one job key as the Primary key.

During run time, a Create Job Keys activity dynamically sets the values of the job keys when an orchestration job runs on the Integration Appliance. After the orchestration job has completed, you can view the values of the job keys from the Web Management Console (WMC). In the WMC, you can also search for the value of a key. All orchestration jobs that contain keys with that value are displayed.

Note: When designing your orchestration, typically it is best to add only one Create Job Keys activity to an orchestration. If the first Create Job Keys activity in an orchestration has a map to the job key, during run time, the second Create Job Keys activity in an orchestration does not reset the value of the job key that was set by first Create Job Keys activity. The action of the second Create Job Keys activity is ignored.

## Procedure

---

1. Create or open an orchestration. See [Creating an orchestration](#) for more information. A graphical representation of the orchestration is displayed.
2. Select Orchestration > Properties to open the Orchestration pane.
3. Click Add. A new key with default values is added to the Keys list.
4. Enter the configuration information for new job keys as described in the following table.

Field / Column	Description
<b>Name (Required)</b>	Specifies the name of the job key
<b>Type (Required)</b>	Specifies the type of the job key
<b>Primary</b>	Specifies that the key is the Primary key. You can only select one key as the Primary key

## What to do next

---

To remove a key, select the key you want to remove and click Remove.

**Parent topic:** [Utilities Activities](#)

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## Log Message activity

---

You can use the Log Message activity to specify the alert levels and message text, which is displayed in the Integration Appliance orchestration monitoring logs and system logs.

### About this task

---

Use this task to configure the Log Message activity. You can view the Integration Appliance orchestration monitoring logs and system logs from the Web Management Console.

### Procedure

---

1. In the Studio toolbox, click the Activities tab.
2. Expand the Utilities folder contents, and drag the Log Message activity onto the orchestration. The Utilities Log Message Checklist is displayed.
3. In the Checklist, click Summary.
4. Optional Change the description in the Activity Name field.
5. Click Map Inputs. The Map Inputs workspace is displayed. The default parameters: level and message are displayed in the To Activity column.
6. Click Select Inputs. The variables associated with the orchestration are displayed  
*Tip:* If required, you can create a custom mapping variable in Source or Destination column by completing the steps in [Creating Variables](#).
7. Choose a variable, and click OK. The variable and parameters are displayed in the From Orchestration column.
8. To link the activities, drag a variable from the From Orchestration list onto a parameter listed in the To Activity list. If a link can be established, a line connects the two.
9. Repeat this procedure to link other orchestration variables to this activity.

**Parent topic:** [Utilities Activities](#)

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[Feedback](#) | [Notices](#)

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## Schedule Job activity

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The Schedule Job activity is a starter activity that creates an instance of an orchestration at the specified date and time.

### About this task

---

Use this task to add a Schedule Job activity to an orchestration.

### Procedure

---

1. [Create](#) or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activity tab and expand the Utilities folder.
3. Drag a Schedule Job activity onto the orchestration.
4. Specify the Schedule setting in the Configure pane as described in the following table:

Option	Description
<b>5 seconds</b>	Specifies the orchestration to run once every five seconds.
<b>10 seconds</b>	Specifies the orchestration to run once every ten seconds.
<b>20 seconds</b>	Specifies the orchestration to run once every twenty seconds.
<b>30 seconds</b>	Specifies the orchestration to run once every thirty seconds.
<b>60 seconds</b>	Specifies the orchestration to run once every sixty seconds.
<b>5 Minutes</b>	Specifies the orchestration to run once every five minutes.
<b>Hour</b>	Specifies the orchestration to run once an hour at the specified time.
<b>Day</b>	Specifies the orchestration to run once a day at the specified time. The time is based on a 24-hour clock in the GMT timezone.
<b>Week</b>	Specifies the orchestration to run once a week on the specified day (Sunday - Saturday) and at the specified time (24-hour clock) based on the GMT timezone.
<b>Month</b>	Specifies the orchestration to run once a month on the specified date (1 - 31) and time (24-hour clock) based on the GMT timezone.
<b>Year</b>	Specifies the orchestration to run once a year on the specified date (month and day) and time (24-hour clock) based on the GMT timezone.

Note: The Schedule Job activity starts the orchestration on the specified time and date based on the GMT timezone. You must adjust the specified time and date for your timezone.

5. To map the output of the activity:
    - a. Select the Map Outputs task in the Checklist. The time output parameter is displayed in the From Activity pane. This is an optional parameter that during run time returns the date and time (in the XML Schema xsd:dateTime data type) that the orchestration started processing.
    - b. If desired, map the time output parameter parameters to variable(s). See [Creating a Map](#) for general instructions on mapping.
- Note: To create an orchestration that starts on two different dates, for example: February 13, 2011 and April 21, 2011. Drop a Pick activity on the orchestration as the starter activity and drop into the Pick branches, two Schedule Job

activities, one that starts on February 13, 2011 and the other on April 21, 2011.

**Parent topic:** Utilities Activities

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## Archives Activities

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- [Archive activity](#)

During run time, the Archive activity takes input files and directories and adds them to a single archive. The Archive activity may also compress the input files and directories. Complete the steps in the following topics to add and configure an Archive activity in an orchestration, and to map inputs and outputs to the Archive activity

- [Unarchive Activity](#)

The Unarchive activity extracts the input files and directories from the passed in archive during run time. At run time, the Unarchive activity determines the archive/compression types and unarchives/decompresses the archive appropriately

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[Feedback](#) | [Notices](#)

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## Archive activity

---

During run time, the Archive activity takes input files and directories and adds them to a single archive. The Archive activity may also compress the input files and directories. Complete the steps in the following topics to add and configure an Archive activity in an orchestration, and to map inputs and outputs to the Archive activity

- [Adding an Archive activity](#)
- [Configuring an Archive activity](#)
- [Archive activity map input](#)
- [Archive activity map output](#)

**Parent topic:** Archives Activities

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[Feedback](#) | [Notices](#)

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## Adding an Archive activity

---

### About this task

---

To add an Archive activity in the orchestration complete the following steps:

## Procedure

---

1. [Create](#) or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Archives folder.
3. Drag the Archive activity onto the orchestration. The Summary task is displayed.

## What to do next

---

[Configure](#) the Archive activity.

**Parent topic:** [Archive activity](#)

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[Feedback](#) | [Notices](#)

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## Configuring an Archive activity

---

### About this task

---

To configure an Archive activity, complete the following steps:

## Procedure

---

1. Select the Configure task from the Checklist. The Configure task is displayed.
2. Select a format type as described in the following table:

Format	Archived?	Compressed?	Description
TAR	Yes	No	Specifies that input files and directories are archived using the tar format before being returned in the archive output parameter as a single value. The returned value is compatible with the archive format produced by the UNIX tar -cf command. This option returns a value that is compatible with a file that ends in the .tar extension.

<b>Format</b>	<b>Archived?</b>	<b>Compressed?</b>	<b>Description</b>
TAR+GZIP	Yes	Yes	Specifies that input files and directories are archived using the tar format and then compressed using the gzip format, before being returned in the archive output parameter as a single value. The returned value is compatible with the archive format produced by the UNIX tar -cf command and the compression format produced by the GNU gzip command. This option returns a value that is compatible with a file that ends in the .tar.gz extension.
ZIP	Yes	Yes	Specifies that input files and directories are compressed and archived using the .zip format before being returned in the archive output parameter as a single value. The returned value is compatible with the compression and archive format produced by proprietary compression products. This option returns a value that is compatible with a file that ends in the .zip extension.
GZIP	No	Yes	Specifies that a single input file is compressed using the gzip format, before being returned in the archive output parameter. The returned value is compatible with the compression format produced by the GNU gzip command. This option returns a value that is compatible with a file that ends in the .gz extension.

## What to do next

---

[Map the input](#) of the activity.

[Parent topic:](#) Archive activity

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# Archive activity map input

---

## About this task

---

To map the input of the Archive activity complete the following steps:

## Procedure

---

1. Select the Map Inputs task in the Checklist. The Map Inputs task is displayed. The archiveEntries input parameter is displayed in the To Activity pane.
2. Map variables to the nodes of the archiveEntries input parameter. See [Creating a Map](#) for general instructions on mapping. The archiveEntries/entry node is a recurring node and each entry represents either a single file or directory in the archive. The nodes of the archiveEntries/entry node are described in the following table:

Node Name	Required	xsd Type	Description
name	Yes	string	Specifies the name of the directory or file to be added to the archive. If the file or directory is located in a sub-directory, the value of the name node must contain the directory path of the file in addition to the file name. For example, to specify the file called file1.txt located in the directory called cat, specify the value: cat/file1.txt.
datetime	No	dateTime	Specifies the creation date and time of the file or directory to be added to the archive.
isdirectory	No	boolean	Specifies if the current entity is a directory or a file: <ul style="list-style-type: none"><li>o true specifies the entity is a directory</li><li>o false specifies the entity is a file</li></ul>
content	No	base64Binary	Specifies the contents of the file or directory.
size	No	decimal	Specifies the size of the file or directory.
userid	No	string	Specifies the user ID of the file or directory.
groupid	No	string	Specifies the group ID of the file or directory.
permissions	No	string	Specifies the permissions of the file or directory.

## What to do next

---

[Map the output](#) of the activity.

**Parent topic:** [Archive activity](#)

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[Feedback](#) | [Notices](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/archive\\_activity\\_mapping\\_input.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/archive_activity_mapping_input.html)

## Archive activity map output

---

### About this task

---

To map the output of the activity complete the following steps:

### Procedure

---

1. Select the Map Outputs task in the Checklist. The Map Outputs task is displayed. The archive output parameter is displayed in the From Activity pane. The archive output parameter contains the archived files and directories.
2. Map a variable to the archive output parameter. See [Creating a Map](#) for general instructions on mapping. For example, you could map the archive output parameter to a variable you created called *outdata*. You could then map the *outdata* variable to the data input parameter of the FTP Put File activity. During run time, the FTP Put File activity creates an archive file on an FTP server.

**Parent topic:** [Archive activity](#)

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[Feedback](#) | [Notices](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/archive\\_activity\\_mapping\\_output.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/archive_activity_mapping_output.html)

## Unarchive Activity

---

The Unarchive activity extracts the input files and directories from the passed in archive during run time. At run time, the Unarchive activity determines the archive/compression types and unarchives/decompresses the archive appropriately

### About this task

---

The supported unarchive and decompression formats are listed in the following table:

Deco mpr essi on/ Unar chiv e For mats	Description
tar	During run time, if the Unarchive activity determines that the archive type is tar, the passed in archive is extracted into its component parts (files and directories) and passed back from the activity using the archiveEntries output parameter. The extraction done during run time by the Unarchive activity is equivalent to extraction done on the command line using the UNIX tar -xf command.
untar and gunzi p	During run time, if the Unarchive activity determines that the archive type is tar and the compression type is gzip, the passed in archive is first decompressed from the gzip format and then extracted into its component parts (files and directories) and passed back from the activity using the archiveEntries output parameter. The extraction done during run time by the Unarchive activity is equivalent to extraction done on the command line using the UNIX tar -xf command to files that end in the .tar extension. The decompression done during run time by the Unarchive activity is equivalent to the decompression done on the command line using the GNU gunzip command to files that end in the .gz extension.

<b>Decompression/ Unarchive Formats</b>	<b>Description</b>
zip	During run time, if the Unarchive activity determines that the archive/compression type is zip, the passed in archive is decompressed and extracted into its component files and directories, and passed back from the activity using the archiveEntries output parameter. The decompression and extraction done during run time by the Unarchive activity is equivalent to the decompression and extraction done using proprietary compression products to files that end in the .zip extension.
gunzip	During run time, if the Unarchive activity determines that the compression type is gzip, the passed in archive is decompressed from the gzip format and passed back from the activity using the archiveEntries output parameter. The decompression done during run time by the Unarchive activity is equivalent to the decompression done on the command line using the GNU gunzip command to files that end in the .gz extension.

During run time, if the passed in archive format is unsupported, the Unarchive activity produces an ActivityFailedException error and issues the following message:

Invalid or unsupported archive format

During run time, if the passed in archive is incorrectly formed, the Unarchive activity produces an ActivityFailedException error and issues the following message:

Error while reading archive

To add and configure an Unarchive activity in an orchestration complete the steps in the following procedures:Â

- [Adding an Unarchive activity](#)
- [Unarchive activity map input](#)
- [Unarchive activity map output](#)

**Parent topic:** Archives Activities

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## Adding an Unarchive activity

### About this task

To add an Unarchive activity to an orchestration complete the following steps:

### Procedure

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Archives folder.
3. Drag the Archive activity onto the orchestration. The Summary task is displayed.

### What to do next

[Mapping input to the Unarchive activity.](#)

**Parent topic:** [Unarchive Activity](#)

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## Unarchive activity map input

---

### About this task

---

To map the input of the Unarchive activity complete the following steps:

### Procedure

---

1. Select the Map Inputs task in the Checklist. The Map Inputs task is displayed. The archive input parameter is displayed in the To Activity pane.
2. Map variables to the nodes of the archive input parameter. The variable should contain the archive to extract the input files and directories from. See [Creating a Map](#) for general instructions on mapping.

**Parent topic:** [Unarchive Activity](#)

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## Unarchive activity map output

---

### About this task

---

To map the output of the Unarchive activity complete the following steps:

### Procedure

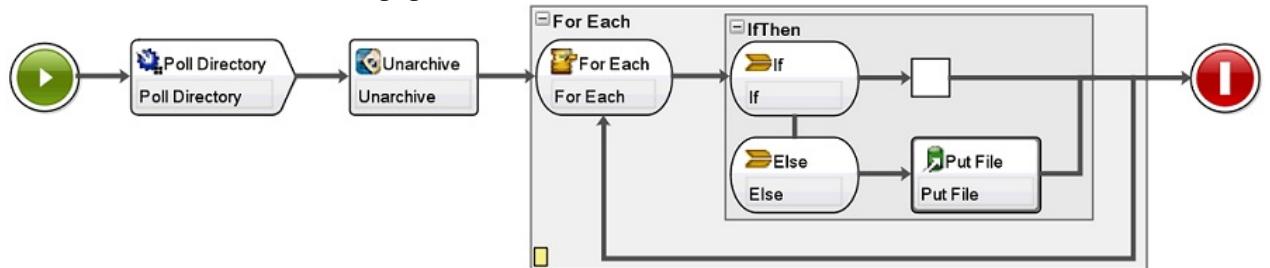
---

1. Select the Map Outputs task in the Checklist. The Map Inputs task is displayed.  
The archiveEntries output parameter is displayed in the From Activity pane. The archiveEntries/entry node is a recurring node and each entry represents either a single file or directory in the archive. The nodes of the archiveEntries/entry node are described in the following table:

Node Name	Required	xsd Type	Description
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Node Name	Required	xsd Type	Description
name	Yes	string	Specifies the name of the directory or file that was extracted from the archive. If the file or directory is located in a sub-directory the value returned by the name node during run time includes the relative directory path of the file or directory. For example, if the archive contains the file called file1.txt located in the directory called cat, the value: cat\file1.txt is returned.
datetime	No	dateString	Specifies the creation date and time of the file or the directory in the archive.
isdirectory	No	boolean	Specifies if the current entity is a directory or a file: <ul style="list-style-type: none"> <li>◦ true specifies the entity is a directory</li> <li>◦ false specifies the entity is a file</li> </ul>
content	No	base64Binary	Specifies the contents of the file or directory.
size	No	long	Specifies the size of the file or directory.
userid	No	string	Specifies the user ID of the file or directory.
groupid	No	string	Specifies the group ID of the file or directory.
permissions	No	string	Specifies the permissions of the file or directory.

2. Map variables to the archiveEntries output parameter. See [Creating a Map](#) for general instructions on mapping. For example, you could map the archiveEntries output parameter to an *archiveEntries* variable and then add an For Each activity after the Unarchive activity to iterate through the instances of the *archiveEntries* variable. Each instance of the *archiveEntries* variable represents a file or a directory. You could add a If..Then activity to the For Each loop that tests the value of the *isdirectory* node and if the entity is not a directory, place the extracted file on an FTP Server using the FTP Put File activity. This example orchestration is shown in the following figure:



**Parent topic:** [Unarchive Activity](#)

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## Cryptoservice Activities

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- [Overview of the PGP activities](#)

WebSphere® Cast Iron® Studio supports PGP encryption and decryption. You can import, store, and retrieve keys and certificates that are used for PGP activities.

- [Using the PGP Encrypt activity](#)

During run time, the PGP Encrypt activity encrypts content. Complete the following steps to add and map inputs and output of the PGP Encrypt activity in an orchestration:

- [Using the PGP Decrypt activity](#)

During run time, the PGP Decrypt activity decrypts content received from another activity or variable in the orchestration. Complete the following steps to add and map inputs and output of the PGP Decrypt activity in an orchestration

- [Importing PGP keys](#)

The `CommandLine` utility that is discussed in this topic, extracts the private and public keys from the secure and public ring files, from the PGP/GPG keystore.

- [Troubleshooting and support](#)

Troubleshooting techniques and self-help information help you identify and solve problems quickly. This topic provides potential solutions for issues you would have with the Cryptographic activities.

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## Overview of the PGP activities

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WebSphere® Cast Iron® Studio supports PGP encryption and decryption. You can import, store, and retrieve keys and certificates that are used for PGP activities.

PGP has its own keystore for managing keys. The keystore location depends on the tool used. The public and the secret key ring of PGP is for cryptography. Cryptoservice uses the PGP keys to encrypt and decrypt content.

Cryptoservice comes with a utility to extract the PGP keys and store the same in the PKCS12 keystore.

For Cast Iron Studio, you must use the command line utility to import the extracted PKCS12 to the Studio keystore.

For the On-Premise Appliance, you must import the extracted PKCS12 to the Appliance keystore from the Web Management Console.

After completing the procedures mentioned above, you can encrypt and decrypt content.

- To encrypt content, you must encode the human readable content to base64, and then pass the base64 content to PGP Encrypt activity. Then, configure the inputs and provide the public key to the activity, which in turn would return the encrypted data.
- To decrypt the content you must pass the encrypted data to the PGP Decrypt activity, and configure the input with the private keys and password. The output is base64. You must decode the base64 data to get the original content.

**Parent topic:** [Cryptoservice Activities](#)

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## Using the PGP Encrypt activity

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During run time, the PGP Encrypt activity encrypts content. Complete the following steps to add and map inputs and output of the PGP Encrypt activity in an orchestration:

**Parent topic:** [Cryptoservice Activities](#)

### Adding the PGP Encrypt activity

---

#### About this task

To add the PGP Encrypt activity in the orchestration, complete the following steps:

#### Procedure

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Cryptoservice folder.
3. Drag the PGP Encrypt activity onto the orchestration. The Summary of the activity configuration checklist is displayed.

#### What to do next

Map the inputs of the PGP Encrypt activity.

### Mapping the inputs of the activity

#### About this task

To map the inputs of the PGP Encrypt activity, complete the following steps:

#### Procedure

1. Select the Map Inputs task in the Checklist. The Map Inputs task is displayed. The `cryptoserviceEntry` input parameter is displayed in the To Activity pane.
2. Map the variables to the nodes of the `cryptoserviceEntry` input parameter. The nodes of the `cryptoserviceEntry/entry` node are described in the following table:

Table 1. Nodes of `cryptoserviceEntry`

Node name	Required	xsd Type	Description
content	Yes	base64Binary	Indicates the actual base64Binary content that must be encrypted.
keyhandle	Yes	String	Indicates the name of the GPG key that is used to encrypt the content.
password	Optional	String	Indicates the password that must be used to decrypt keyhandle.
armored	Optional	Boolean	Indicates the value that must be set for ASCII Armored output. The default value is False.

Note: 128-bit encryption level requires an 8-byte key, which must be a 32-character hexadecimal string.

### Mapping the output of the activity

---

#### About this task

To map the output of the activity, complete the following steps:

#### Procedure

1. Select the Map Outputs task in the Checklist. The Map Outputs task is displayed. The PGP Encrypt output parameter is displayed in the From Activity pane. The PGP output parameter contains a variable that stores the encrypted content, which

can be used in the orchestration.

2. Map a variable from the PGP Encrypt output parameter to another variable or activity in the orchestration.

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/PGP\\_Encrypt.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/PGP_Encrypt.html)

## Using the PGP Decrypt activity

---

During run time, the PGP Decrypt activity decrypts content received from another activity or variable in the orchestration. Complete the following steps to add and map inputs and output of the PGP Decrypt activity in an orchestration

**Parent topic:** [Cryptoservice Activities](#)

### Adding the PGP Encrypt activity

---

#### About this task

To add the PGP Decrypt activity in the orchestration, complete the following steps:

#### Procedure

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Cryptoservice folder.
3. Drag the PGP Decrypt activity onto the orchestration. The Summary of the activity configuration checklist is displayed.

#### What to do next

Map the inputs of the PGP Decrypt activity.

### Mapping the inputs of the activity

#### About this task

To map the inputs of the PGP Decrypt activity, complete the following steps:

#### Procedure

1. Select the Map Inputs task in the Checklist. The Map Inputs task is displayed. The `cryptoserviceEntry` input parameter is displayed in the To Activity pane.
2. Map the variables to the nodes of the `cryptoserviceEntry` input parameter. The nodes of the `cryptoserviceEntry/entry` node are described in the following table:

Table 1. Nodes of `cryptoserviceEntry`

Node name	Required	xsd Type	Description
content	Yes	base64Binary	Indicates the actual base64Binary content that must be encrypted.
keyhandle	Yes	String	Indicates the name of the GPG key that is used to encrypt the content.
password	Yes	String	Indicates the password that must be used to decrypt keyhandle.
armored	Optional	Boolean	Indicates the value that must be set for ASCII Armored output. The default value is False.

Note: 128-bit encryption level requires an 8-byte key, which must be a 32-character hexadecimal string.

## What to do next

Map the output of the PGP Decrypt activity.

## Mapping the output of the activity

---

### About this task

To map the output of the activity, complete the following steps:

### Procedure

1. Select the Map Outputs task in the Checklist. The Map Outputs task is displayed. The PGP Decrypt output parameter is displayed in the From Activity pane. The PGP Decrypt output parameter contains a variable that stores the decrypted content, which can be used in the orchestration.
2. Map a variable from the PGP Decrypt output parameter to another variable or activity in the orchestration.

---

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## Importing PGP keys

---

The `commandLine` utility that is discussed in this topic, extracts the private and public keys from the secure and public ring files, from the PGP/GPG keystore.

### Procedure

To extract the keys from the PGP/GPG keystore, the `commandLine` utility uses the following parameters:

1. `commandLine` utility accepts the following parameters to extract the private and public keys:

```
extractPKCS12AndPublicKey.bat -privateKeyRingFile <file name of the secret key ring file> -  
publicKeyRingFileName <file name of the pub key ring file> -passphrase <password for the gpg  
keys> -keyStoreLocation <keyStore Location> -keyStorePassword <keystore password> -  
privateCertificateName <private certificate name> -issuerName <name of the certificate issuer> -  
certificateStartDate <start date> -certificateExpiryDate <end date> -algorithmName  
SHA256withRSA
```

For example:

```
extractPKCS12AndPublicKey.bat -privateKeyRingFile C:\Users\IBM_ADMIN\Documents\gpg\secring.gpg  
-publicKeyRingFile C:\Users\IBM_ADMIN\Documents\gpg\pubring.gpg -passphrase castiron -  
keyStoreLocation C:\mykeystore.p12 -keyStorePassword changeit -privateCertificateName myKey -  
issuerName "C=US, ST=CA, L=Mountain View, O=Cast Iron Systems, CN=Cast Iron Appliance  
VMWSULXJE23SK6HO" -certificateStartDate 01-01-2013 -certificateExpiryDate 01-01-2015 -algorithm  
SHA256withRSA
```

2. `commandLine` utility accepts the following parameters to import the private and public keys to a Studio keystore file:

```
importPKCS12IntoJKS.bat -privateCertificateName <private certificate name> -  
pkcsKeyStoreLocation < PKCS12 keystore store that we created in step1 > -pkcsKeyStorePassword  
< password for the keystore>
```

For example:

```
importPKCS12IntoJKS.bat -privateCertificateName myKey -pkcsKeyStoreLocation C:\mykeystore.p12 -  
pkcsKeyStorePassword changeit
```

Note: Step 2 is not required for the appliance. You can import the generated PKCS12 keystore to the appliance through the Security menu on the Web Management Console dashboard. For more information about importing certificates, see Cast

**Parent topic:** [Cryptoservice Activities](#)

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## Troubleshooting and support

---

Troubleshooting techniques and self-help information help you identify and solve problems quickly. This topic provides potential solutions for issues you would have with the Cryptographic activities.

### **OutOfMemoryError exception thrown**

---

**Problem:** The following exception is thrown when you use the PGP Encrypt activity, for FTP transfer of .zip file or a .tar.gz file:

Internal error: java.lang.OutOfMemoryError: Java heap space (data size is over 10MB)

**Cause:** Insufficient default heap allocation when starting Cast Iron Studio.

**Solution:** Increase the heap allocation when starting Cast Iron Studio, by giving the following command: CastIronStudio.exe -J-Xmx1024m.

**Parent topic:** [Cryptoservice Activities](#)

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## Data Quality Activities

---

- [About Data Quality Activities](#)

Use the Data Quality activities in Studio to migrate or load data into a new system and/or synchronize data between existing systems.

- [Filter and Profile Activity](#)

This activity filters data based on the Boolean expression you create and generates a profile summary of the cleansed data.

- [Creating Profile Summaries](#)

Use the Profile Summaries pane to specify parameters that determine the data that the Integration Appliance profiles.

- [Filtering Expressions](#)

A filter expression is an XPath query that specifies conditions (boolean expressions) that the Integration Appliance uses to route data to different outputs. You can create a filter expression using the Filter and Profile activity.

- [Lookup Activity](#)

Use the Lookup Activity to retrieve rows of data from a selected database endpoint and use values from those rows to replace or add values to the current recurring element, based on an exact or approximate match of values from the current recurring element that is used as a key to perform the lookup.

- [Sort Activity](#)

This activity allows you to sort inputs.

- [Merge Activity](#)

Use the Merge activity allows to join two sorted inputs. Both the left and right inputs must be sorted on a specified sort key

before you can merge or join inputs. You must specify at least one sort key for both the left and right inputs. The Merge activity resolves any duplicates.

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## About Data Quality Activities

---

Use the Data Quality activities in Studio to migrate or load data into a new system and/or synchronize data between existing systems.

From the Activities tab in the Studio toolbox, select the Data Quality directory. The Data Quality activities include:

- Filter and Profile — Filters data based on the Boolean expression you create and generates a profile summary of the cleansed data.
- Lookup — Retrieves rows of data from the database endpoint, which you select.
- Sort — Sorts the inputs based on sort keys you specify.
- Merge — Joins two sorted inputs.

The Integration Appliance has a Local Staging Database where you can stage the data. The Local Staging Database can be used to share data between jobs to facilitate an iterative data cleansing process. You can view and edit data in the Local Staging Database through the Web Management Console (WMC).

From the WMC, you can complete the following operations against the Local Staging Database:

- Start and Stop the database server
- Connect to the Local Staging Database
- Create tables
- Drop tables
- View tables and sort by columns
- Add rows
- Delete rows

For more information about performing these operations, see the WMC Online Help.

**Parent topic:** [Data Quality Activities](#)

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## Filter and Profile Activity

---

This activity filters data based on the Boolean expression you create and generates a profile summary of the cleansed data.

- [Configuring the Filter and Profile activity](#)
- [Mapping Filter and Profile activity outputs](#)

**Parent topic:** [Data Quality Activities](#)

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## Configuring the Filter and Profile activity

---

### About this task

---

To configure the Filter and Profile activity complete the following steps:

### Procedure

---

1. In the Activities tab, open the Data Quality directory to find the Filter and A Profile activity.
2. Add the activity to an orchestration. The Checklist and Summary for the activity are displayed beneath the orchestration.
3. From the Checklist, select Configure and specify the following information:
  - a. The variable name of the variable that contains the recurring element, which the activity loops through.
  - b. The element name of the recurring element in the variable, which the activity loops through.

Click the browse button to open the Select Recurring Element window, where you can view all the elements in the variable you selected. A
4. From the Checklist, select Filter Expression and [create](#) an expression that the Integration Appliance uses to filter data.  
Note: The Integration Appliance can only create a profile for data that passes the filter expression. To profile all data, complete one of the following tasks:
  - o Click Advanced and enter the following expression: `true()`
- OR
- o Enter the expression: `1 = 1`
5. From the Checklist, select Profile Summary to [define](#) parameters for the data you want to summarize.
6. Map the [output](#) of the activity.

**Parent topic:** [Filter and Profile Activity](#)

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## Mapping Filter and Profile activity outputs

---

### About this task

---

To map the outputs of the Filter and Profile activity complete the following steps:

### Procedure

---

1. In the Checklist, select Map Outputs. The following elements are displayed in the From Activity pane: goodXML, badXML, summary, and summaryCharts.pdf.
2. Click Select Outputs... and select the output variables for the map. For instructions about creating variables, see [Creating variables](#).
3. As appropriate, map the output parameters to the variables. For general mapping instructions, see [Creating a map](#).

**Parent topic:** [Filter and Profile Activity](#)

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## Creating Profile Summaries

---

Use the Profile Summaries pane to specify parameters that determine the data that the Integration Appliance profiles.

### About this task

---

To create a profile summary complete the following steps:

### Procedure

---

1. In the Activities tab, open the Data Quality directory to find the Filter andÂ Profile activity.
2. Add the activity to an orchestration. The Checklist and Summary for the activity are displayed beneath the orchestration.
3. From the Checklist, select Profile Summary. The Profiles Summaries pane is displayed.
4. Click Add.
5. Specify values for the following parameters:

Profile Summary Parameter	Description
XPath	The XPath expression, relative to the recurring element you selected, that specifies the data to profile
Name	The name of the profile. The default is the XPath expression you selected.
Datatype	<p>Specifies the data type as either text or number. By default, the data type is text.</p> <p>For a numeric data type, the following general statistics are generated: min, max, mean, count, sum, standardDeviation, variance.</p> <p>For a text data type, the following general statistics are generated: min, max.</p> <p>For both data types, histograms can be generated to show frequency counts for specific values or value ranges.</p>
Histogram?	Specifies whether or not to generate a histogram. The default is <code>false</code> and a histogram is not generated. To generate a histogram, select the Histogram? field and select Generate Histogram. The value <code>true</code> is displayed in the field.
Max. Bins	Specifies the maximum number of bins for the histogram. Important: Only specify a value for this parameter if the datatype is specified as number. The default value is 0, indicating that no maximum exists.
Max. Values	Specifies the maximum number of values to use for the histogram. The default value is 0, indicating that no maximum exists.
Min. Freq.	Specifies the minimum frequency for values to be included in the histogram. This is a number between 0-1, indicating the ratio of the number of occurrences of a given value to all values. The default is 0.0
Chart	<p>Generates a PDF of the chart type you specify:</p> <ul style="list-style-type: none"><li>o bar</li><li>o pie</li><li>o none</li></ul> <p>By default, the Integration Appliance does not generate a chart.</p>

**Parent topic:** [Data Quality Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_creating\\_profile\\_summaries.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_creating_profile_summaries.html)

## Filtering Expressions

---

A filter expression is an XPath query that specifies conditions (boolean expressions) that the Integration Appliance uses to route data to different outputs. You can create a filter expression using the Filter and Profile activity.

### About this task

---

Use the Studio Builder tool to:

- Create a filter expression
- Add conditions
- Delete conditions
- Edit conditions
- Specify the processing order of conditions
- [Creating a filter expression](#)
- [Adding a filter expression condition](#)
- [Deleting a filter expression condition](#)
- [Editing a filter expression condition](#)
- [Changing the processing order of filter expression conditions](#)

**Parent topic:** [Data Quality Activities](#)

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## Creating a filter expression

---

### About this task

---

To use the Builder to create a filter expression complete the following steps:

### Procedure

---

1. In the orchestration, select the Filter and Profile activity to open the Checklist.
2. In the Checklist, select Filter Expression. The Builder is displayed in the Filter Expression pane.
3. Click the Left Hand Expression field to enter a parameter or click (...) for the elements of a selected variable to be displayed.  
Click (B) to select a new variable.
4. Click the Op list to select an operator for the condition.

For a complete list of operators that you can use in the Builder, see [Valid Operators for Conditions](#)

5. Click the Right Hand Expression field to enter a parameter or click (...) for the elements of a selected variable to be displayed.  
Click (B) to select a new variable.

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## Adding a filter expression condition

---

### About this task

To add a condition complete the following steps:

### Procedure

1. Click Add. Fields for a new condition are displayed. By default, the new condition is inclusive, using AND logic.
2. Optional: In the first column, select OR from the list to use OR logic.
3. Specify the Left Hand Expression.
4. Specify the operator for the condition
5. Specify the Right Hand Expression.

**Parent topic:** [Filtering Expressions](#)

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## Deleting a filter expression condition

---

### About this task

To delete a condition complete the following steps:

### Procedure

1. In the Filter Expression pane, select the condition.
2. Click Delete.

**Parent topic:** [Filtering Expressions](#)

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[Feedback](#) | [Notices](#)

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# Editing a filter expression condition

---

## About this task

---

To edit a filter expression condition complete the following steps.

## Procedure

---

- Select any field in the Filter Builder and make your edits. If the Filter Builder is not displayed, click Use Builder. You can edit left-hand expressions, select operators, and right-hand expressions.  
-OR-
- Click Advanced to directly edit XPath expressions that define the condition.  
Note: Use the XPath Evaluator to test XPath expressions.

**Parent topic:** [Filtering Expressions](#)

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# Changing the processing order of filter expression conditions

---

## About this task

---

To change the processing order of the conditions complete the following step:

Select a condition in the Filter Builder and click the up or down arrows.

**Parent topic:** [Filtering Expressions](#)

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[Feedback](#) | [Notices](#)

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# Lookup Activity

---

Use the Lookup Activity to retrieve rows of data from a selected database endpoint and use values from those rows to replace or add values to the current recurring element, based on an exact or approximate match of values from the current recurring element that is used as a key to perform the lookup.

To use the fuzzy lookup capability, you must use the Local Staging Database on the Integration Appliance. For non-fuzzy lookups, you can use any database endpoint that Studio supports.

Note: When the Lookup activity is run from Studio, lookup results are not cached.

Lookup activity requires a parameterized SQL query, an XPath query that indicates the recurring element, and an XPath query that indicates which value to use as the key for the lookup. A set of lookup values specifies how column values from the database result set should be mapped to elements or attributes of the current context node.

To complete a fuzzy lookup and approximately match the key, the Lookup activity uses the edit distance algorithm.

For example:

In the following table Names you want to perform a query on the last name Stark. The database contains the following records:

FirstName	LastName
Tony	Stark
Bruno	Star
Georgia	States
Howard	Stark

Issue the following query: `select * from Names where Col_LastName='Stark'`

In this example, the `key_length = length('Stark')` = 5

For comparing against the threshold, use the value `(1 - (edit_distance / key_length))`

The edit distance is `edit_distance('Stark', 'Stark')` = 0 and `edit_distance('Stark', 'Star')` = 1

- To pick up only Stark use threshold `(1 - (0/5)) = 1`
- To pick up both Stark and Star, but not States use threshold `(1 - (1/5)) = 0.8`
- [Using the Lookup activity](#)
- [Mapping Lookup activity outputs](#)

**Parent topic:** [Data Quality Activities](#)

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## Using the Lookup activity

---

### About this task

To use the Lookup activity complete the following steps:

### Procedure

1. In the Activities tab, open the Data Quality directory to find the Lookup activity.
2. Add the activity to an orchestration. The Checklist and Summary for the activity are displayed beneath the orchestration.
3. In the Checklist, select Pick Endpoint and select a database endpoint. For instructions on creating or editing a database endpoint, see [Creating or Editing a Database Activity Endpoint](#)  
Note: To complete a fuzzy lookup you must select the Local Staging Database. To access the Local Staging Database:
  - a. From the Database Type list, select Local. Staging opens in the Database Name field.
  - b. In the Network Location Server field, specify the data IP address of the Integration Appliance, where the Local Staging Database is started. The Port is fixed at 1526.
  - c. Enter a User Name and Password.  
Important: This login information must be for a user with Administrator or Publisher privileges on the Integration Appliance.
  - d. Specify any additional parameters. For more details about the database parameters. see [Creating or Editing a Database Activity Endpoint](#).
  - e. Click OK. The Database endpoint is displayed in the Endpoints directory of the Studio toolbox.
4. From the Checklist, select Configure and specify the following information:
  - a. The variable name of the variable that contains the recurring element, which the activity loops through.
  - b. The element name of the recurring element in the variable, which the activity loops through.

Click the browse button ( ...) to open the Select Recurring Element window, where you can view all the elements in the variable you selected.

5. In the Checklist, select Enter Query

a. Specify the query for the lookup table.

- For fuzzy lookups, you must specify exactly one parameter.
- For non-fuzzy lookups, you can specify one or more parameters.

b. From the Encoding list, select the encoding type.

c. Click Validate Query

Note: If using a Local database endpoint, you must start the Local Staging Database on the Integration Appliance before you can view columns or validate queries. To start the Local Staging Database, in the Web Management Console (WMC), select Staging > Staging Database Start/Stop.

d. Click View Columns and select a table to view detailed column information for the table you select. The Hide Buffer and Control Table option is the default selection.

6. In the Checklist, select Setup Input Parameters. The query you entered in the previous step is displayed.

Specify the input XPath for each input parameter in the XPath column. The input XPath is an XPath expression that is relative to the recurring element which specifies the lookup key value that the query uses.

7. In the Checklist, select Setup Result Set.

a. Specify the output XPath for each row in the result set. The output XPath specifies the element or attribute relative to the recurring element that will hold the output value. Â

b. Use the at-sign ( @ ) at the beginning of the XPath expression to specify an attribute.

- If the name of the element or attribute already exists, Studio replaces the existing value. Otherwise, Studio creates a new named element or attribute.
- If the lookup fails to find a match, the row is sent to the badXML element.

8. In the Checklist, select Delivery Rules and specify the following delivery rules:

Delivery Rule	Description
Activity Timeout	Specifies in seconds the length of time that the Integration Appliance waits for the endpoint to respond. The default setting is 300 seconds.
Fuzzy lookup	Determines if the lookup is fuzzy. Select this option to perform a fuzzy lookup. Important: You can only perform a fuzzy lookup against a Local Database Endpoint. Note: Before you run the orchestration, use the Database Asset generation tool, in the WMC, to create an index table.
Output at most __ match(es) per fuzzy Â lookup	Specifies the maximum number of matches to output per fuzzy lookup.
The similarity threshold __ for a fuzzy lookup	Specifies the similarity threshold Â for determining a match during a fuzzy lookup (between 0 - 1). Â 1 = an exact match.
Ignore case (for fuzzy lookup only)	Select for your lookup to be case-insensitive.
Ignore leading and trailing white spaces	When selected, the Lookup activity ignores any white space that occurs before and after the data. For non-fuzzy lookups, you can only apply this option to the input value. For fuzzy lookups, you can apply this option to both the input value and the lookup table key.
Preload cache	Select this option to preload the lookup cache.
Cache at most __ lookup results	Specifies the maximum number of lookup results to cache.

## What to do next

Map the [output](#) of the activity.

**Parent topic:** [Lookup Activity](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/use\\_the\\_lookup\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/use_the_lookup_activity.html)

## Mapping Lookup activity outputs

---

### About this task

---

To map the outputs of the Lookup activity complete the following steps:

### Procedure

---

1. In the Checklist, select Map Outputs. The following elements are displayed in the From Activity pane: goodXML and badXML.
2. Click Select Outputs... and select the output variables for the map. For instructions about creating variables, see [Creating variables](#).
3. As appropriate, map the output parameters to the variables. For mapping instructions, see [Creating a map](#).

**Parent topic:** [Lookup Activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map\\_outputs\\_of\\_the\\_lookup\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map_outputs_of_the_lookup_activity.html)

## Sort Activity

---

This activity allows you to sort inputs.

### About this task

---

Important: Use the Sort activity to sort data before attempting to merge data with the Merge activity.

To sort inputs complete the following steps:

### Procedure

---

1. In the Activities tab, open the Data Quality directory to find the Sort activity.
2. Add the activity to an orchestration. The Checklist and Summary for the activity show beneath the orchestration.
3. From the Checklist, select Configure and specify the following information:
  - a. The variable name of the variable that contains the recurring element, which the activity loops through.
  - b. The element name of the recurring element in the variable, which the activity loops through. Click the browse button ( ...) to open the Select Recurring Element window, where you can view all the elements in the variable you selected.
4. From the Checklist, select Sort Properties and specify the following information:
  - a. Optional: Select Remove Duplicates, so that the activity sends duplicates to the remainderXml element.
  - b. Click Add. A new row is displayed in the Sort Keys table.
  - c. In the XPath column, specify the recurring element.
  - d. Select the Sort Type field and from the list. Choose either ascending or descending sort order for the list. The default sort type is ascending.
  - e. Select the Datatype field and from the list, choose either the text or number data type. The default data type is text.
  - f. Optional: Select the Ignore Case option. If you select this option, the case of the data is ignored during the sort process.
  - g. Optional: Select the Ignore Leading and Trailing Whitespace option. By default, the sort process reads any white space around data. If you select this option, the activity ignores white spaces that can affect the sort results.
5. In the Checklist, select Map Outputs. The following elements are displayed in the From Activity pane: sortedXml and remainderXml.

- a. Click Select Outputs... and select the output variables for the map. For instructions about creating variables, see [Creating variables](#).
- b. As appropriate, map the output parameters to the variables. For mapping instructions, see [Creating a map](#).

**Parent topic:** [Data Quality Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/sort\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/sort_activity.html)

## Merge Activity

Use the Merge activity allows to join two sorted inputs. Both the left and right inputs must be sorted on a specified sort key before you can merge or join inputs. You must specify at least one sort key for both the left and right inputs. The Merge activity resolves any duplicates.

Use an XPath query to specify the recurring element for each input. There are six types of merges:

Merge Type	Description
Merge and remove duplicates	Removes the duplicates that occur in both the left and right inputs. Studio sends any duplicates to the RemainderXML element.
Merge and keep left duplicates	Sends duplicates from the left input to the RemainderXML element.
Merge and keep all duplicates	Keeps duplicates from both inputs.
Inner join	Joins inputs on the specified keys. Any row that does not participate in the join is sent to the RemainderXML element.
Left outer join	Joins the inputs on the specified keys. Rows from the left input are kept in the merged output even if they do not participate in the join. Studio sends any rows from the right input that do not participate in the join to the RemainderXML element.
Full outer join	Joins the inputs on the specified keys. Rows that are not involved with the join are kept in the merged output.

Merge Examples:

Table 1 are the Left and Right inputs for this example. Table 2 are the expected results for each type of merge operation that the Merge activity supports.

In the following example, x is the key variable. Studio sends entries that are merged or joined to the mergeXML element and sends any entries that do not participate in a merge or join to the RemainderXML element.

Table 1. Left and Right Inputs

Left Inputs	Right Inputs
<pre>&lt;entries&gt; &lt;entry x="1" y="10"/&gt; &lt;entry x="2" y="20"/&gt; &lt;entry x="2" y="21"/&gt; &lt;entry x="3" y="30"/&gt; &lt;/entries&gt;</pre>	<pre>&lt;entries&gt; &lt;entry x="0" z="0"/&gt; &lt;entry x="2" z="22"/&gt; &lt;entry x="2" z="23"/&gt; &lt;entry x="4" z="40"/&gt; &lt;/entries&gt;</pre>

Table 2. Merge Results for Each Merge Type

Merge Type	Merge Results
------------	---------------

Merge Type	Merge Results
Merge Â and remove duplicates	<pre>&lt;entries&gt; &lt;entry x="0" z="00"&gt; &lt;entry x="1" y="10"&gt; &lt;entry x="3" y="30"&gt; &lt;entry x="4" z="40"&gt; &lt;/entries&gt;</pre>
Merge and keep left duplicates	<pre>&lt;entries&gt; &lt;entry x="0" z="00"&gt; &lt;entry x="1" y="10"&gt; &lt;entry x="2" y="20"&gt; &lt;entry x="2" y="21"&gt; &lt;entry x="3" y="30"&gt; &lt;entry x="4" z="40"&gt; &lt;/entries&gt;</pre>
Merge and keep all duplicates	<pre>&lt;entries&gt; &lt;entry x="0" z="00"&gt; &lt;entry x="1" y="10"&gt; &lt;entry x="2" y="20"&gt; &lt;entry x="2" y="21"&gt; &lt;entry x="2" z="22"&gt; &lt;entry x="2" y="23"&gt; &lt;entry x="3" y="30"&gt; &lt;entry x="4" z="40"&gt; &lt;/entries&gt;</pre>
Inner join	<pre>&lt;entries&gt; &lt;entry x="2" y="20" z="22"&gt; &lt;entry x="2" y="20" z="23"&gt; &lt;entry x="2" y="21" z="22"&gt; &lt;entry x="2" y="21" z="23"&gt; &lt;/entries&gt;</pre>
Left outer join	<pre>&lt;entries&gt; &lt;entry x="1" y="10"&gt; &lt;entry x="2" y="20" z="22"&gt; &lt;entry x="2" y="20" z="23"&gt; &lt;entry x="2" y="21" z="22"&gt; &lt;entry x="2" y="21" z="23"&gt; &lt;entry x="3" y="30"&gt; &lt;/entries&gt;</pre>
Full outer join	<pre>&lt;entries&gt; &lt;entry x="0" z="00"&gt; &lt;entry x="1" y="10"&gt; &lt;entry x="2" y="20" z="22"&gt; &lt;entry x="2" y="20" z="23"&gt; &lt;entry x="2" y="21" z="22"&gt; &lt;entry x="2" y="21" z="23"&gt; &lt;entry x="3" y="30"&gt; &lt;entry x="4" z="40"&gt; &lt;/entries&gt;</pre>

- Merging two sorted inputs

**Parent topic:** Data Quality Activities

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## Merging two sorted inputs

## About this task

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To merge two sorted inputs complete the following steps:

### Procedure

---

1. In the Activities tab, open the Data Quality directory to find the Merge activity.
2. Add the activity to an orchestration. The Checklist and Summary for the activity are displayed beneath the orchestration.
3. From the Checklist, select Configure and specify the following information:
  - a. The variable name of the left variable that contains the recurring element, which the activity loops through.
  - b. The element name of the recurring element in the left variable, which the activity loops through. Click the browse button (...) to open the Select Recurring Element window, where you can view all the elements in the variable you selected. Â
  - c. The variable name of the right variable that contains the recurring element, which the activity loops through.
  - d. The element name of the recurring element in the right variable, which the activity loops through. Click the browse button (...) to open the Select Recurring Element window, where you can view all the elements in the variable you selected. Â
4. From the Checklist, select Merge Properties and specify the following information:
  - a. Select a [merge type](#) for the list.
  - b. In the Left Sort Key section, click Add. A new row is displayed in the Sort Keys table.
  - c. In the XPath column, specify the recurring element.
  - d. Select the Sort Type field and from the list. Choose either the ascending or descending to sort the list. The default sort type is ascending.
  - e. Select the Datatype field and from the list, choose either the text or number data type. The default data type is text.
  - f. Repeat steps (b - e) for the Right Sort Keys.
  - g. Optional: Select the Ignore Case option. If you select this option, the case of the data is ignored during the merge process.
  - h. Optional: Select the Ignore Leading and Trailing Whitespace option. By default, the merge process reads any white space around data. If you select this option, the activity ignores white spaces that can affect the merge results.
5. In the Checklist, select Map Outputs. The following elements are displayed in the From Activity pane: mergedXml and remainderXml.
  - a. Click Select Outputs... and select the output variables for the map. For instructions about creating variables, see [Creating variables](#).
  - b. As appropriate, map the output parameters to the variables. For mapping instructions, see [Creating a map](#).

**Parent topic:** [Merge Activity](#)

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## Database Activities

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- [Creating or Editing a Database Activity Endpoint](#)  
Endpoints provide the database connection information that Studio and the Integration Appliance use to connect to a database. Â
- [Browsing Database Tables](#)  
Use the Browse Database Tables dialog box to dynamically select a table from the current list of tables in the database specified by the Endpoint.
- [Character Encodings](#)  
Set the character encoding at the database level, the table level, or the column or parameter level.
- [Database Entities and Activities](#)
- [Defining Columns for Old Values in Updates](#)
- [MaxPooledStatements Parameter](#)  
The MaxPooledStatements parameter is automatically defined and set with a default value for all types of Database Endpoints.
- [Oracle, Sybase, DB2, and Informix Parameters](#)  
In the Additional Parameters table of the Database Endpoint, define the connection parameters for Oracle, Sybase, DB2Â®, or

Informix® databases.

- [Retry Options For Inbound Database Activities](#)

Â This section contains the procedure for configuring the retry options for the following inbound database activities: **Get Inserted Rows** activity, **Get Updated Rows** activity, **Get Deleted Rows** activity, and **Poll Table** activity.

- [Retry Options For Outbound Database Activities](#)

This section contains the procedure for configuring the retry options for the following outbound database activities: **Execute Query** activity, **Insert Rows** activity, **Update Rows** activity, **Delete Rows** activity, and **Call Procedure** activity

- [SequeLink Parameters](#)

- [Single-Table Inbound Database Activities](#)

During run time, single-table inbound database activities poll if a database operation has occurred on any rows in the specified columns of a database table at the specified time interval.

- [Single-Table Outbound Database Activities](#)

This section contains the procedures for configuring the following single-table outbound database activities.

- [Specifying Delivery Rules for Database Activities](#)

Specify how messages will be delivered at the Delivery Rules pane.

- [Viewing Column Details](#)

The View Column dialog box allows you to see detailed column information for tables as you enter a SQL statement in the **Enter Query** task of the **Checklist** for the **Execute Query** activity. This task describes how to access the View Column Details dialog box.

- [Working with Database Parameters](#)

Parameters supply database-specific connection information for an endpoint.

- [Call Procedure Activity](#)

During run time, the Call Procedure activity runs a stored procedure in a database. The stored procedure must be written and installed in the database before you can complete the configuration of the Call Procedure activity in Studio.

- [Execute Query Activity](#)

During run time, the Execute Query activity runs a select SQL statement.

- [Poll Table Activity](#)

The Poll Table activity checks if a database operation (insert or update) has occurred on any rows of a database table by checking the status of a special flag column at the specified time interval.

- [Testing an SSL Database Connection](#)

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## Creating or Editing a Database Activity Endpoint

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Endpoints provide the database connection information that Studio and the Integration Appliance use to connect to a database. Â

### Select or edit a database endpoint

---

1. In the Create Endpoint or Edit Endpoint pane, configure the fields as described in the following tables.

Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.

2. Click Test Connection to confirm that you can connect to the database. Click OK.

### Database options

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Table 1. Database options

Field	Description
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Field	Description
Database Type	<p>Specifies the database type. If you select the Generic JDBC driver or MySQL, you must install the module providers into Studio. To add JDBC drivers into Studio, you add them to the Web Management console and then complete the following steps in the WMC.</p> <ol style="list-style-type: none"> <li>1. Go to Settings.</li> <li>2. Select Design.</li> <li>3. Select Libraries Environment and set it to the environment that you loaded the compressed files into.</li> <li>4. Restart Studio.</li> </ol> <p>Note: For JDBC drivers to access database endpoints for Cast Iron® Generic JDBC support, the JDBC driver must be:</p> <ul style="list-style-type: none"> <li>• Type 4.</li> <li>• Must implement the JDBC 2.0 or greater specification.</li> <li>• Must provide support for the DataSource feature API.</li> </ul> <p>Additional Parameters may be required for a Generic JDBC Driver. You should check the documentation for the driver you intend to use to see if any additional parameters are required.</p> <p>For more information about installing the JDBC libraries into the WMC, see the WMC Online help.</p>
Database Name	Specifies the name of the Database to which you want to connect. If connecting to Oracle RAC, see <a href="#">For Oracle RAC</a> . Note: For AS/400 DB2® databases, this is the collection name defined during installation.
Network Location: Server	Specifies the name or IP address of the machine where the database server resides. For Informix®, log into the Informix Server Administrator and select the Configuration > SQLHOST menu option to find the hostname. For Sequelink, enter the name or the IP address of the Sequelink server.
Network Location: Port	Specifies the port number of the database server listener. For Sequelink, enter the port number of the Sequelink server listener.
User Name	Specifies the username that the Integration Appliance uses to connect to the database. Note: For DB2, the user must have the permissions to create a package.
Password	Specifies the password associated with the specified username.
Additional Parameters	Specifies the database-specific information for an endpoint. See <a href="#">Working with Database Parameters</a> for details. By default, the MaxPooledStatements parameter is automatically defined and set with a default value for all types of Database Endpoints.

Note: For some of the fields in the endpoint, you can define configuration properties to supply the values for these fields.  The



icon displays when you click in a field that supports a configuration property and a configuration property of the same type has already been configured for the project.

## For Informix Databases

### To find the port number for an Informix database:

1. In an editor, open the following file: \$INFORMIXSERVER/etc/sqlhosts
2. Note the `servicename` found in the SERVER column.
3. In an editor, open the appropriate file for your system:
  - UNIX - /etc/services
  - Windows - \Winnt\system32\drivers\etc\services
4. In the file, search for the `servicename` to find the associated port number.

## For DB2 AS/400 Databases

For some EBCDIC-US columns on DB2 AS/400, Studio cannot determine the correct size and type.

### To pass an EBCDIC-US encoded parameter:

1. In Studio, open the orchestration containing a Database Connector activity.
2. Change CHAR type columns to VARBINARY type. The EBCDIC-encoded columns display as CHAR type columns in the data type of the outbound connector.

3. Use a map before the Database Connector to pad an EBCDIC-encoded parameter with spaces, so that the value of the parameter equals the length of the column.

For example, if the column length is 10 and the value is "abc", pad the column with 7 spaces.

If the EBCDIC-encoded value is not padded with spaces, the Database Connector pads the value with NULL. This can create inconsistent data and errors can occur.

#### To read an EBCDIC-US encoded column from a result set:

1. In Studio, open the orchestration containing the Database Connector Parameterized Query operation.

When you use a parameterized query to select an EBCDIC-encoded column from a database, the Database Connector returns values padded with spaces if the value is shorter than the column length.

For example, if the column length is 10 and the value is "abc", the Database Connector pads the column with 7 spaces.

2. Create a map after the Parameterized Query operation to trim the padded spaces from the XML result set.

## For Oracle RAC:

---

IBM Cast Iron supports additional properties in the connection string that enable Oracle RAC connectivity. Use the following additional Â propertiesÂ to connect with Oracle RAC:

1. `AlternateServers=(servername1[:port1]  
[;property=value[;...]],  
servername2[:port2]  
[;property=value[;...]],...)`

Where:

*servername* is the IP address of the server

*port* is the port number of the server

*property=value* enter the ServiceName which is used as the Database Name. Entering a SID is optional.

2. `LoadBalancing=true|false`

Determines whether the driver will use client load balancing in its attempts to connect to a list of database servers, primary and alternate. The list of alternate servers is specified by the `AlternateServers` property. If set to true, client load balancing is used and the driver attempts to connect to the list of database servers, primary and alternate servers, in a random order. If set to false (the default), client load balancing is not used and the driver connects to each server based on their sequential order (primary server first, then, alternate servers in the order they are specified).

3. Use the service name in the Database Name of the end-point.

## Connection Pool, Encoding, TimeOut, and Security Options

---

Default values are provided for the connection pool options. Change them as needed.

Table 2.

Field	Description
Connection Pool Options	Â
Initial Pool Size	Specifies the initial number of database connections that the Integration Appliance opens and places in the connection pool.
Minimum Connections	Specifies the number of database connections that the Integration Appliance always keeps open in the connection pool. Specifying 0 is supported.
Maximum Connections	Specifies the maximum number of database connections that the Integration Appliance can have open in the connection pool. Specifying 0 means the number of connections is unbounded.

Field	Description
Maximum Idle Time	Specifies the amount of time (in minutes) that a database connection can be open and idle before being closed by the Integration Appliance. Specifying 0 means that the connections are closed when they are returned to the pool - no idle time.
Reclaim Connections	<p>Specifies how often the Integration Appliance checks the connection pool to determine if any connections should be closed. For example, if the Reclaim Connections is set to 6 minutes, the Integration Appliance checks the connection pool every six minutes to determine if the total number of open connections in the pool are greater than the minimum number of connections. If the number of open connections are greater than the specified minimum number, the Integration Appliance closes any excess connections (over the number of Minimum Connections) for any connections that have exceeded the Maximum Idle Time.</p> <p>For example, the Minimum Connections is set to 2, Maximum Connections is set to 6, the Reclaim Connections is 6 minutes, and the Maximum Idle Time set to 2 minutes. A total of five connections are currently open in the connection pool. When the Reclaim Connections of 6 minutes is reached, the Integration Appliance checks the connection pool and determines that one connection has been idle for 3 minutes, one connection has been idle for 4 minutes, and three connections are still active. The Integration Appliance closes the two idle connections. After another 6 minutes, the Integration Appliance checks the connection pool again.</p>
Default Encoding	Â
Encoding Â	<p>Specifies the default character Encoding to use when connection to this database. To set the encoding type, choose from one of the following options:</p> <ul style="list-style-type: none"> <li>• From the Encoding drop-down list, select a default encoding type. Â</li> <li>• Enter your encoding type directly by clicking in the Encoding field and typing in your encoding type.</li> </ul> <p>Note: Some double-byte characters are not converted using the SHIFT-JIS encoding. For more information, see <a href="#">Using the Shift-JIS encoding</a>.</p>
Quoted Identifiers	Â
Delimit the identifiers for tables, columns, and objects with quotes	Specifies if quotes are used around the identifiers for database tables, columns, and objects in the generated SQL statements that the Integration Appliance and Studio uses to communicate with the database. Quoting an identifier makes the identifier case-sensitive. For example, the identifier string: myTable could refer to table named mytable or MYTABLE but the identifier string with quotes: "myTable" only refers to a table named myTable. Quoting an identifier also allows characters not normally found in database names such as spaces.
Security	Â
Enable Encryption	Specifies that the connection should use SSL.
Validate Server Certificate	Specifies that the client should validate the database server certificate. See <a href="#">Testing an SSL Database Connection</a> .
Require Client Authentication	Specifies that the client present a certificate to the database server.
Connection Timeout	Â

Field	Description
Time out after ___ second(s) when establishing a connection to the Endpoint.	<p>Specifies the amount of time in seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the Endpoint and the time it takes for the Endpoint to respond to the connection request. For a database activity, the amount of time the Integration Appliance attempts to establish a connection to the database before timing out. A connection timeout is different from an activity timeout because an activity timeout occurs after the connection to the Endpoint has already been established. An activity timeout specifies the amount of time in seconds before a timeout occurs between the activity invoking a request on an Endpoint and the time it takes the Endpoint to respond. You set the activity timeout in <b>Retry</b> task of any of the following database activities:</p> <ul style="list-style-type: none"> <li>• Execute Query Activity, see <a href="#">Execute Query Activity</a>.</li> <li>• Single-Table Inbound Database Activities, see <a href="#">Single-Table Inbound Database Activities</a>.</li> <li>• Single-Table Outbound Database Activities, see <a href="#">Single-Table Outbound Database Activities</a>.</li> <li>• Poll Table Activity Call, see <a href="#">Poll Table Activity</a>.</li> <li>• Procedure Activity, see <a href="#">Call Procedure Activity</a>.</li> </ul>

**Parent topic:** [Database Activities](#)

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## Browsing Database Tables

Use the Browse Database Tables dialog box to dynamically select a table from the current list of tables in the database specified by the Endpoint.

Studio connects to the database to get the current list of tables from the database.

To select a table choose one of the following options:

- Click on a table in the list and click OK.
- Double-click on a table in the list.

 **To change the list of selectable tables, use the following options:**

- To see tables associated with a different schema, select a schema from the Filter by User Schema list.
- To see tables for all schemas, click Clear.
- To filter out any buffer or control tables created using the Web Management Console (WMC) that are used internally by the Integration Appliance during run time check Hide Buffer and Control Tables. The column names in these tables are prefaced by convention with the string: IH:

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## Character Encodings

Set the character encoding at the database level, the table level, or the column or parameter level.

For example, the default encoding for your database might be set to UTF-8 but one table in that database might explicitly set the encoding to SHIFT-JIS. One column in this table might have the encoding explicitly set to ISO-8859-1 while all the other columns do not specify the encoding, so they inherit the default encoding of SHIFT-JIS from the table.

The Integration Appliance can convert from type of encoding to another during run time. For example, the orchestration might read in input data from a table with the encoding set to ISO-8859-1 and then write out that data to a column set to UTF-8.

## To set character encodings:

---

- At the **Database** level - Select the encoding type from the Encoding list of the Edit Endpoint or Create Endpoint dialog box.
- At the **Table** level - Select the encoding type from the Encoding list in the Pick Table pane.
- At the **Column** level - Click on the Encoding field for the desired column in the Pick Table pane and select from the list.

See the following below for descriptions of the default character encoding types.

Note: You must leave the encoding field blank for the following binary Datatypes:

- Blob
- Binary
- Varbinary

## To set the encoding type, choose from one of the following options:

---

- From the Encoding list, select a default encoding type. Â
- Enter your encoding type directly by clicking in the Encoding field and typing in your encoding type.

Some of the default encoding types are listed in the following table:

Table 1.

Encoding	Description
UTF-8	UTF-8 is a standard character encoding for Unicode or ISO-10646. Both of these standards assign a single unique number to each character used in modern languages. This is the default encoding.
US-ASCII	Also known as ASCII, this is the basic character encoding used on Windows and UNIX computers.
ISO-8859-1	Also known as Latin1, this encoding includes ASCII plus characters for many Western European languages.
EBCDIC-XML-US	This is the basic character encoding used on IBMÂ® computers. EBCDIC-US, like ASCII, is a US-based character encoding.
SHIFT-JIS	Also known as Katakana, specifies the Japanese language. Note: Some double-byte characters are not converted using the SHIFT-JIS encoding. For more information, see <a href="#">Using the Shift-JIS encoding</a> .

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## Database Entities and Activities

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The following table shows the relationship between the database entities and the different types of database activities. In addition, this table describes how the database entity is created in the database.

Note: For DB2Â® UDB, the asset generation script limits the names of buffer and control tables to nine characters.

Note: For Generic JDBC Driver connections: The scripts used to generate assets are only a template based on the information available from the database. The scripts should be analyzed to confirm that the SQL syntax and datatypes are supported for the target database. If they are not, the scripts must be modified and run via another mechanism to create the required assets for the database.

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<b>Database Entity</b>	<b>Associated Activity Description</b>	<b>How created?</b>
Buffer Tables	<p>Used with the inbound single-table activities: <b>Get Inserted Rows</b>, <b>Get Updated Rows</b>, and <b>Get Deleted Rows</b>. The buffer tables contain the result of a database operation.</p> <p>For example, a <b>Get Inserted Rows</b> activity is polling for an insert on the database. When the insert occurs in the database, the buffer tables are populated with data that was inserted.</p>	<p>The buffer tables used with inbound single-table activities are created using the following procedure:</p> <ol style="list-style-type: none"> <li>1. In the Web Management Console (WMC), go to the Assets screen and execute the scripts.</li> <li>2. From the WMC, deploy the project.</li> </ol>
Control Tables	<p>Used with the following activities when messages are specified to be delivered exactly once:</p> <ul style="list-style-type: none"> <li>• <b>Insert Rows</b></li> <li>• <b>Update Rows</b></li> <li>• <b>Delete Rows</b></li> <li>• <b>Call Procedure</b></li> </ul> <p>Control tables are not needed if another delivery option is specified. Specify a delivery option in the <b>Deliver Rules</b> task of the <b>Checklist</b> for an activity.</p>	<p>The control tables used with activities are created using the following procedure:</p> <ol style="list-style-type: none"> <li>1. In the Web Management Console (WMC), go to the Assets screen and execute the scripts.</li> <li>2. From the WMC, deploy the project.</li> </ol>
Triggers	Used with inbound single-table activities, <b>Get Inserted Rows</b> , <b>Get Updated Rows</b> , and <b>Get Deleted Rows</b> , to populate the buffer table.	<p>The triggers used with inbound single-table activities are created using the following procedure:</p> <ol style="list-style-type: none"> <li>1. In the Web Management Console (WMC), go to the Assets screen and execute the scripts.</li> <li>2. From the WMC, deploy the project.</li> </ol>
Stored Procedures	Stored procedures are required with the <b>Call Procedure</b> activity.	<p>The stored procedure must be written and installed in the database before you can complete the configuration of the <b>Call Procedure</b> activity in Studio. The stored procedure is not created using the WMC. The database administrator must create the stored procedure directly in the database.</p>
Sequence	Used with inbound single-table activities, <b>Get Inserted Rows</b> , <b>Get Updated Rows</b> , and <b>Get Deleted Rows</b> , for the Oracle database only.	<p>Oracle only - The sequences used with inbound single-table activities are created using the following procedure:</p> <ol style="list-style-type: none"> <li>1. Publish a project with an orchestration that contains the inbound single-table activity to the Integration Appliance from Studio.</li> <li>2. Use the Web Management Console (WMC) to create the sequences in the Oracle database used by the orchestration.</li> <li>3. From the WMC, deploy the project.</li> </ol>

**Parent topic:** [Database Activities](#)

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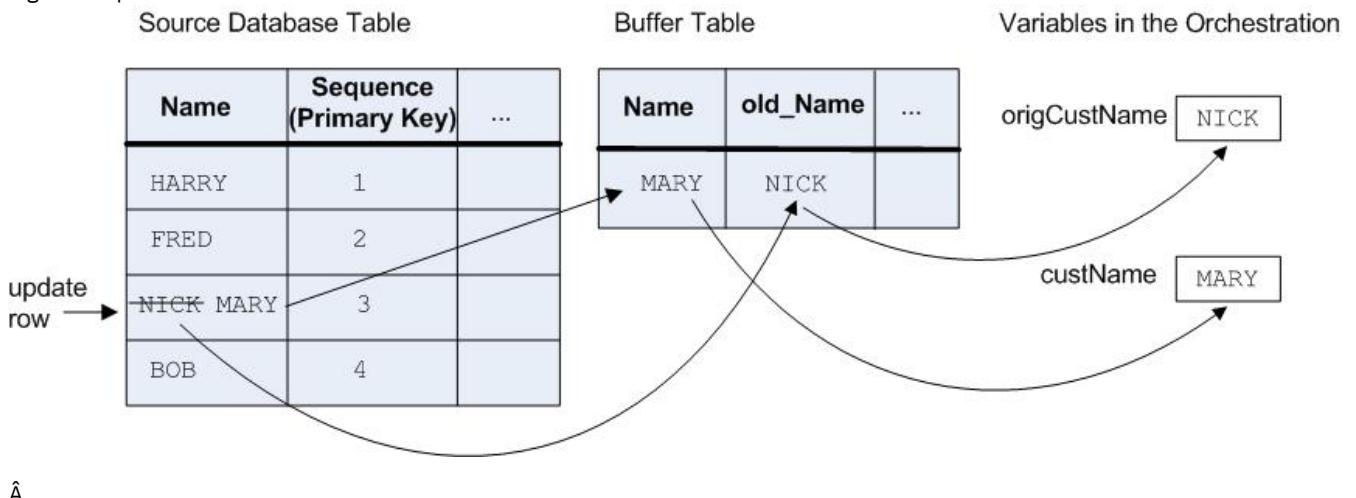
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/conn\\_ref\\_Connector\\_Prerequisites\\_for\\_Database\\_Operations.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/conn_ref_Connector_Prerequisites_for_Database_Operations.html)

# Defining Columns for Old Values in Updates

## About this task

The **Get Updated Rows** (inbound) and **Update Rows** (outbound) activities can store both the new value and the original values of the specified columns during run time. For example an **Get Updated Rows** activity could be configured to stored both the original value of `Name` column and the new value of the `Name` column. Figure 1 shows the transfer of example data when the **Get Updated Rows** activity is processed by the Integration Appliance after an update trigger event occurs:

Figure 1. Update old columns

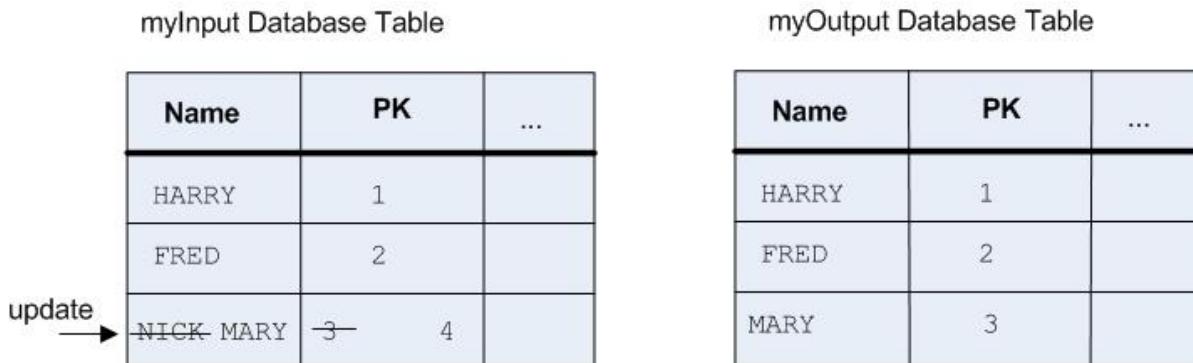


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In the Old Value Columns for Updates dialog box, select the columns that you want to store the original values. The Old Value Columns for Updates dialog box is available by clicking Old Values in the **Pick Table** task of the **Checklist** for the **Get Updated Rows** and **Update Rows** activities. By default the name of the column used to store the original values is the original column name prefixed with the string: `old_`. For example if the original column name is called `FirstName`, by default the column used to store the original value of the update operation is called `old_FirstName`. This default name can be changed.

For some projects, you might want to also store the original values of the Primary Keys. For example, if your application actually changes primary key values during update operations as shown in Figure 2.

Figure 2. Example 1



The purpose of the example orchestration is to keep the `myInput` database table in sync with the `myOutput` database table. The example orchestration contains a **Get Updated Rows** activity that polls for update events in the `myInput` table and an **Update Rows** activity that updates the `myOutput` table.

During run time, an update operation on the `myInput` database table occurs, changing both the value of the `Name` column and the primary key value for that row. This update operation is done outside of the integration project. In order for the orchestration to keep the `myInput` database table in sync with the `myOutput` database table, it needs access to the original primary key so it knows which row in the `myOutput` database table to update with the new primary key and the new value for the `Name`.

The old primary key can be saved to a variable by the **Get Updated Rows** activity to be used later by the **Update Rows** activity when updating the `myOutput` database table as shown in Figure 3.

Figure 3. Example 2

myInput Database Table

Name	PK	...
HARRY	1	
FRED	2	
NICK MARY	3	4

The **Update Rows** activity does a update operation to keep the tables in sync.

myOutput Database Table

Name	PK	...
HARRY	1	
FRED	2	
NICK MARY	3	4

**Parent topic:** [Database Activities](#)

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## MaxPooledStatements Parameter

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The MaxPooledStatements parameter is automatically defined and set with a default value for all types of Database Endpoints.

Attention: Changing the default setting of the MaxPooledStatements parameter can cause reduced performance.

The MaxPooledStatements parameter specifies the maximum number of prepared statements that are cached by the Database Endpoint. When the value of MaxPooledStatements parameter is greater than zero, the Database Endpoint creates a prepared statement pool to store PreparedStatement objects for later reuse. The performance cost of creating new PreparedStatement objects can be expensive, so storing and reusing existing PreparedStatement objects from a pool can result in a performance gain.

**Parent topic:** [Database Activities](#)

**Related tasks:**

[Working with Database Parameters](#)

**Related reference:**

[Oracle, Sybase, DB2, and Informix Parameters](#)

[SequeLink Parameters](#)

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## Oracle, Sybase, DB2, and Informix Parameters

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In the Additional Parameters table of the Database Endpoint, define the connection parameters for Oracle, Sybase, DB2®, or Informix® databases.

:

### Oracle

---

If the **Call Procedure** activity calls an Oracle stored procedure that returns a result set, you must define an Endpoint solely for that connector and add the parameter procedureretresult. The value for this parameter must be 1.

If an Oracle database table name starts with a number, Studio throws an Invalid Trigger Specification error.

If the project uses database links with the Oracle 8.1.6 database, you must define the supportLinks parameter and assign it a value of true in the Database Endpoint. By default, the [MaxPooledStatements parameter](#) is automatically defined and set with a default value for an Oracle Database Endpoint. Â

## DB2

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For the DB2 database, you must define the following two parameters:

- LocationName - Enter the location name defined during installation for the AS/400 DB2 database. Not required for UDB.
- PackageCollection - The value of this field depends on the system type of the DB2 database:
  - AS/400 Â - Enter the collection name.
  - UDB Â - Enter the name of the DB2 Database.

Note: The DB2 user must have the permissions to create a package.

By default, the [MaxPooledStatements parameter](#) is automatically defined and set with a default value for a DB2 Database Endpoint.

## Informix

---

You must define the InformixServer parameter.

To find the Informix Server name search the onconfig file for DBSERVERNAME and specify its value for the InformixServer parameter.

By default, the [MaxPooledStatements parameter](#) is automatically defined and set with a default value for an Informix Database Endpoint.

## Sybase

---

For a Sybase Endpoint, the OverwriteCharLimits parameter is automatically defined and set to the value of 32768. This parameter defines the size of character columns, for example: vchars and chars.

By default, the [MaxPooledStatements parameter](#) is automatically defined and set with a default value for a Sybase Database Endpoint. Â

**Parent topic:** [Database Activities](#)

**Related tasks:**

[Working with Database Parameters](#)

**Related reference:**

[MaxPooledStatements parameter](#)

[SequeLink Parameters](#)

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## Retry Options For Inbound Database Activities

---

Â This section contains the procedure for configuring the retry options for the following inbound database activities: **Get Inserted Rows** activity, **Get Updated Rows** activity, **Get Deleted Rows** activity, and **Poll Table** activity.

### Specify the retry options for inbound database activities

---

1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
2. Configure the retry options for connecting to a database. The following table describes the retry options for connecting to a database:

Table 1.

Field	Description
Retry --- second(s) between each retry.	<p>Specifies the amount of time (in seconds) that the Integration Appliance waits before trying to establish a connection to the database.</p>
2) Try to connect --- times before failing.	<p>Specifies the retry count - the maximum number of times the Integration Appliance attempts to establish a connection to the database before issuing an error.</p> <ul style="list-style-type: none"> <li>o If this parameter is set to "0", Studio does not try to reconnect.</li> <li>o If this parameter is set to a value less than "0", Studio retries the connection indefinitely.</li> </ul> <p>If an orchestration that starts with an inbound database activity is deployed and the Integration Appliance cannot connect to the specified database, the Integration Appliance logs the connections errors as Warnings in the system log until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system log, resets the connection error count to zero, and continues to attempt to establish a connection to the database.</p> <p>For example: the retry count is set to 3. The first, second, and third connection errors are shown in the system log as Warnings. The Integration Appliance logs the fourth connection error as an Error and resets the connection error count to zero. Therefore, the fifth connection error generates a Warning in the system log. The Integration Appliance continues to attempt to establish a connection to the database.</p> <p>Â</p>
Activity Timeout --- seconds when the Endpoint does not respond to a request.	<p>Specifies the amount of time in seconds before a timeout occurs between the activity making a request on an Endpoint and the time it takes the Endpoint to respond. For example, the amount of time the Integration Appliance waits for a response from the database after requesting that database polls for an INSERT trigger event, before the Integration Appliance issues a timeout error. An activity timeout is different from a connection timeout because an activity timeout occurs after the connection to the Endpoint has been established. A connection timeout specifies the amount of time in seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the Endpoint and the time it takes for the Endpoint to respond to the connection request. Set the connection timeout in Database Endpoint tab. For more information about connection timeouts, see <a href="#">Creating or Editing a Database Activity Endpoint</a>.</p>

**Parent topic:** [Database Activities](#)

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## Retry Options For Outbound Database Activities

---

This section contains the procedure for configuring the retry options for the following outbound database activities: **Execute Query** activity, **Insert Rows** activity, **Update Rows** activity, **Delete Rows** activity, and **Call Procedure** activity

### Specify the retry options for outbound database activities

---

1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
2. Configure the retry options for connecting to a database. The following table describes the retry options for connecting to a database:

Table 1.

Field	Description
Retry	Â
1) Wait --- second(s) between each retry.	Specifies the amount of time (in seconds) that the Integration Appliance waits before trying to establish a connection to the database.
2) Try to connect --- times before failing.	<p>Specifies the retry count - the maximum number of times the Integration Appliance attempts to establish a connection to the database before issuing an error and stopping the processing of the current orchestration job.</p> <p>If you deploy an orchestration that contains the outbound database activity and the Integration Appliance cannot connect to the specified database, the Integration Appliance logs the connections errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system and orchestration logs and stops processing the current orchestration job.</p> <p>For example, the retry count is set to 3. The first, second, and third connection errors are shown in the system log as Warnings. The Integration Appliance logs the fourth connection error as an Error and stops processing the current orchestration job.</p> <p>Note: For the Database Execute Query activity, if you set this parameter to zero, the Integration Appliance retries the connection indefinitely.</p>
Activity Timeout	Â
3) Time out after --- seconds when the Endpoint does not respond to a request.	Specifies the amount of time in seconds before a timeout occurs between the activity making a request on an Endpoint and the time it takes the Endpoint to respond. For example, the amount of time that the Integration Appliance waits for a response from the database after requesting an Insert, before the Integration Appliance issues a timeout error. An activity timeout is different from a connection timeout because an activity timeout occurs after the connection to the Endpoint has been established. A connection timeout specifies the amount of time in seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the Endpoint and the time it takes for the Endpoint to respond to the connection request. Set the connection timeout in the Database Endpoint tab. For more information about connection timeouts, see <a href="#">Creating or Editing a Database Activity Endpoint</a> .

**Parent topic:** [Database Activities](#)

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## Sequelink Parameters

---

The various parameters for a Sequelink Endpoint are listed in this section. Some parameters require that a **Parameter Value** is specified. You can also add additional parameters.

Note: When you specify SequeLink Server as the **Database Type** for an endpoint, the parameters listed in this section in bold display in the Additional Parameters table of the Endpoint pane.

## MaxPooledStatements

---

By default, the **MaxPooledStatements** parameter is automatically defined and set with a default value for a SequeLink Database Endpoint. Â

## ServerDataSource

---

This parameter is required. You must enter the Data Source Name in the **Parameter Value** field. The Data Source Name is specified in the Data Source Settings in the Sequelink Manager.

## BaseDatabaseType

---

Enter the string: OTHERS.

## DBLogonId

---

Enter the name of the user account to use to access this database. This is an optional parameter that duplicates the User Name property of the endpoint. Use this parameter if your SequeLink Server requires it. You must also complete the DBPassword parameter.

## DBPassword

---

Enter the password for the account specified in DBLogonId. This is an optional parameter that duplicates the Password property of the endpoint. Use this parameter if your SequeLink Server requires it.

## HLogonID

---

Enter the login or user name to use to access the host where the SequeLink Server is installed. This is an optional parameter that is only required if the SequeLink Server requires host authentication. You must also specify the HPassword parameter.

## HPassword

---

Enter the password to use to access the host where the SequeLink Server is installed. This is an optional parameter that is only required if the SequeLink Server requires host authentication.

**Parent topic:** [Database Activities](#)

**Related tasks:**

[Working with Database Parameters](#)

**Related reference:**

[Oracle, Sybase, DB2, and Informix Parameters](#)

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## Single-Table Inbound Database Activities

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During run time, single-table inbound database activities poll if a database operation has occurred on any rows in the specified columns of a database table at the specified time interval.

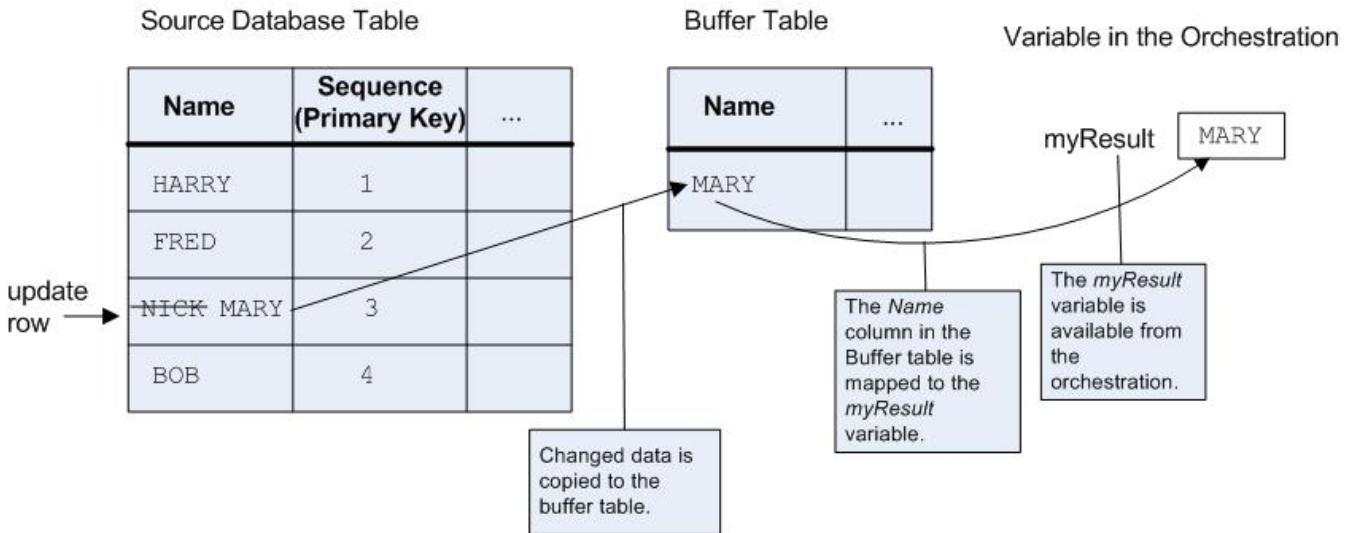
This section contains the procedures for configuring the following single-table inbound database activities:

- **Get Inserted Rows** - During run time, the **Get Inserted Rows** activity polls for rows being added to the buffer table from an INSERT trigger event. The Get Inserted Rows activity then maps the buffer data to variable or variables. Â Â

- **Get Updated Rows** - During run time, the **Get Updated Rows** activity polls for rows being added to the buffer table from a UPDATE trigger event. The Get Updated Rows activity then maps the buffer data to variable or variables.
- **Get Deleted Rows** - During run time, the **Get Deleted Rows** activity polls for rows being added to the buffer table from a DELETE trigger event. The Get Deleted Rows activity then maps the buffer data to variable or variables.

[Figure 1](#) shows the transfer of example data in the UPDATE trigger event and the **Get Updated Rows** activity:

Figure 1. UPDATE trigger example



After publishing your orchestration with an inbound database activity to the Integration Appliance, you must create the buffer table and triggers using the Web Management Console (WMC) before the orchestration is deployed. For the Oracle database, you must also create a sequence using the WMC.

## No Activity for that Operation Run-time Error

If an orchestration accesses a buffer table containing a row for an activity that is currently not present in the orchestration, the orchestration fails and following error is reported during run time:

The buffer table contains the *OperType* operation  
but there is no activity in the orchestration for that operation.

Where *OperType* is type of operation; for example, INSERT. The values of the IH\_OPERATION\_NAME column in the buffer table for the orchestration must be consistent with the database activities in the orchestration. For example, if a row in the buffer table contains the value: INSERT in the IH\_OPERATION\_NAME column but the orchestration does not contain a **Get Inserted Rows** activity, this error is reported. Each orchestration must have a separate buffer table. In addition, the triggers in the source table must be consistent with database operations specified in the buffer table. For example if the orchestration only contains a single inbound **Get Updated Rows** activity, the source database table must only contain a UPDATE trigger.

## Add a single-table inbound database activity to the orchestration

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Database folder.
3. Drag the desired single-table inbound database activity (**Get Inserted Rows**, **Get Deleted Rows**, or **Get Updated Rows**) onto the orchestration.
4. Select the activity.

## Create, select, or edit a database endpoint

1. Click **Pick Endpoint** task from the **Checklist** and choose from one of the following actions:
  - Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK. Skip to the "Configure the activity" procedure.
  - Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint pane is displayed.
  - Create a new endpoint: Select New. The Create Endpoint pane is displayed.
2. Create or edit a HTTP endpoint, see [Creating or editing an HTTP endpoint](#).

## Select the columns in the source database table that during run time the Integration Appliance polls for changes

---

1. Click Pick Table from the **Checklist**. The Pick Table pane is displayed.
2. Click Browse... to select the database table that is to be the source for inbound messages. The Browse Database Tables dialog box is displayed.
3. Select a table from the list and click OK. Column information for the selected table is displayed in the Pick Table pane.
4. If the character encoding for this table is different from the encoding for the database, enter another encoding using one of the following options:
  - o From the Encoding list, select one of the default encoding types. Â
  - o Enter your encoding type directly by clicking in the Encoding field and typing in your encoding type.This sets the encoding for all the columns of the resulting buffer table.

Note: Some double-byte characters are not converted using the SHIFT-JIS encoding. For more information, see [Using the Shift-JIS encoding](#).
5. By default all columns in the source table are selected. Clear the Use check box to remove a column from resulting buffer table. Click Use All to reselect all the columns.
6. Click in the heading of the column to sort the rows by the column value. For example, to sort the rows by their column name, click the Column Name heading of the column. An arrow is displayed to the right of the column header name. An up arrow indicates the column is sorted by alphabetic order starting with **a** and continuing to **z**. A down arrow indicates the column is sorted by reverse alphabetic order starting with **z** and continuing to **a**. Click the arrow to reverse the alphabetic order.
7. For the **Get Updated Rows** activity only - if you want the resulting buffer table to contain both the new values and the original values of the updated columns follow these steps:
  - a. Click Old Values. The Old Value Columns for Updates dialog box displays.
  - b. Select the Store check box for the database columns that you want to save the original values.
  - c. You can change the default names assigned to columns to store the original values. Double-click the appropriate Column Name to Store Old Value cell.
  - d. Click OK. Â The selected columns are displayed in the From Activity of the Map Outputs pane prefixed with the string: `old_`. You can map both the new and original values from the Map Outputs pane. Â

Note: For more information see [Defining Columns for Old Values in Updates](#).
8. If necessary, change the settings of the Data Type, Encoding, or Nullable values. Click the field to make a new selection.
  - o Data Type - Defaults to the data type for the column in the source database table. If the required data type for the column in the buffer table is different from the data type of the source table, select a different data type by clicking in the Data Type cell and selecting another Data Type from the list. You must select an appropriate data type for those data types that are marked UNSUPPORTED.

Note: For the XMLTYPE data type in an Oracle database and the MONEY data types in a SQL Server database, Studio does not automatically associate the correct data type so you must manually select the appropriate data type.  
Attention: You must select a compatible data type with the source data type to avoid invalid data during run time. For example, do not select the SMALLINT data type for the buffer table if the source data type is INTEGER because during run time a large number stored in an INTEGER column will not convert correctly to the SMALLINT data type.
  - o Size - Size of the column defined in the table. This size is retrieved from the database table and is not configurable.
  - o Encoding - Defaults to current default encoding that was set either at the database level or the table level. If the required encoding for the column is different from the current default encoding, select another encoding by clicking in the Encoding cell and selecting another Encoding from the list. Â
  - o Nullable - Defaults to the nullable setting for the column in the source database table. The Use check box must be selected for those columns where `nullable=false`. A column marked `nullable=false` cannot contain a null during run time.
9. Click Reset to reset all column properties to their defaults. This also resets the Use check box for all columns.
10. Click Refresh to update the list of columns in reference to the latest state of the source database. Recent changes to the source is updated in this pane.
11. Configure the [Specifying Delivery Rules for Database Activities](#).

Note: If you select the Exactly once option in the **Delivery Rules** task, you must create control tables that are used by the Integration Appliance during run time. You create the control tables after publishing the orchestration from Studio to the Integration Appliance. You create the control tables using the Web Management Console (WMC) before you deploy the project.  
Note: If you select the Exactly Once option, you must enable persistence. For more information, see [Enabling persistence](#).
12. Configure the retry options. For more information, see [Retry Options For Inbound Database Activities](#).

## Map the output of the activity

---

1. Select the **Map Outputs** task in the **Checklist**.

The output parameters for the activity are displayed under the rows element in the From Activity pane. The output parameters displayed in the From Activity pane correspond to the columns you selected in the **Pick Table** task. If the Batch option was selected in **Delivery Rules**, the multiple occurrences symbol displays next to the row element.

Note: For the **Get Updated Rows** activity only, if some columns were selected in the Old Values Columns for Updates dialog box (in the **Pick Table** task), these additional output parameters (by default prefixed with the string: `old_`) also display under the rows element. You must map all the old value columns visible in the Map Outputs pane.

2. Map the required output parameters to variable or variables. See [Creating a map](#) for general instructions on mapping. You are not required to map the output parameters for these activities.

Note: After publishing your orchestration with an inbound database activity to the Integration Appliance, you must create the buffer table using the Web Management Console (WMC) before the orchestration is deployed.

**Parent topic:** [Database Activities](#)

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## Single-Table Outbound Database Activities

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This section contains the procedures for configuring the following single-table outbound database activities.

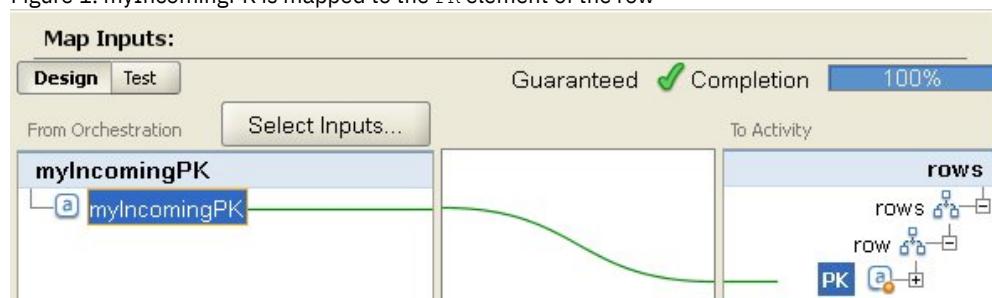
These activities include:

- **Insert Rows** - This activity takes data from variable or variables that are mapped to the input parameters of the activity and inserts this data as rows into the specified database table.
- **Update Rows** - This activity takes data from variable or variables that are mapped to the input parameters of the activity and updates the rows of the specified database table with this new data.
- **Delete Rows** - This activity takes data from variable or variables that are mapped to the input parameters of the activity and deletes rows of the specified database table based on this data.

For the **Update Rows** and the **Delete Rows** activities, the Integration Appliance integrates the database table to determine which columns in the table are primary key columns. When the **Update Rows** or the **Delete Rows** activities are started during run time, the Integration Appliance uses the value of the incoming variable that contains the primary key number to determine which rows to update or delete.

For example, the `PK` column is defined in the database as being a primary key column for the database table. The **Use** check box is selected for the `PK` column in the **Pick Table** task of the **Checklist** for the **Delete Rows** activity. In the Map Inputs pane of the **Delete Rows** activity, the variable called `myIncomingPK` is mapped to the `PK` element of the row as shown in [Figure 1](#):

Figure 1. `myIncomingPK` is mapped to the `PK` element of the row



During run time, if the value of the `myIncomingPK` variable is equal to 3 the row with the `PK` equal to 3 is deleted as shown in [Figure 2](#):

Figure 2. The row with the primary key equal to 3 is deleted

## Variables in the Orchestration

myIncomingPK

3

The row with  
the primary  
key equal to 3  
is deleted  
from the table.

Name	PK	...
HARRY	1	
FRED	2	
MARY	3	

The PK column is  
defined as a  
primary key  
column in the  
database.

If no primary key columns are specified in the **Pick Table** task of the **Checklist**, specify at least one column to act like the primary key. Specify acting primary key column or columns using the Configure Primary Keys dialog box, available by clicking Keys in the **Pick Table** task of the **Checklist** for the **Delete Rows** and **Update Rows** activities. If no primary keys are specified in the database table or selected as acting primary keys in the Configure Primary Keys dialog box, all the rows of the database table are affected by the delete or the update operation.

You can also use the Configure Primary Keys dialog box to specify additional columns to act as primary key columns. For example for the table in the preceding figure, you could define that the `Name` column should act like primary key column in addition to the `PK` primary column that was defined in the database as being a primary key column.

## Add a single-table outbound database activity to the orchestration

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Database folder.
3. Drag the wanted single-table outbound database activity (**Insert Rows**, **Delete Rows**, or **Update Rows**) onto the orchestration.
4. Select the activity.

## Create, select, or edit a database endpoint

1. Click **Pick Endpoint** task from the **Checklist** and choose from one of the following actions:
  - o Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK. Skip to the "Configure the activity" procedure.
  - o Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint pane is displayed.
  - o Create an endpoint: Select New. The Create Endpoint pane is displayed.
2. Create or edit an HTTP endpoint, see [Creating or editing an HTTP endpoint](#).

## Select the columns in the source database table that during run time the Integration Appliance polls for changes

1. Click Pick Table from the **Checklist**. The Pick Table pane is displayed.
2. Click Browse... to select the database table that is to be the source for inbound messages. The Browse Database Tables dialog box is displayed.
3. Select a table from the list and click OK. Column information for the selected table is displayed in the Pick Table pane.
4. If the character encoding for this table is different from the encoding for the database, enter another encoding using one of the following options:
  - o From the Encoding list, select one of the default encoding types. Â
  - o Enter your encoding type directly by clicking in the Encoding field and typing in your encoding type.

This sets the encoding for all the columns of the resulting buffer table.

Note: Some double-byte characters are not converted using the SHIFT-JIS encoding. For more information, see [Using the Shift-JIS encoding](#).

5. By default all columns in the source table are selected. Clear the Use check box to remove a column from resulting buffer table. Click Use All to reselect all the columns.

6. Click in the heading of the column to sort the rows by the column value. For example, to sort the rows by their column name, click the Column Name heading of the column. An arrow is displayed to the right of the column header name. An up arrow indicates the column is sorted by alphabetic order starting with **a** and continuing to **z**. A down arrow indicates the column is sorted by reverse alphabetic order starting with **z** and continuing to **a**. Click the arrow to reverse the alphabetic order.
7. For the **Get Updated Rows** activity only - if you want the resulting buffer table to contain both the new values and the original values of the updated columns follow these steps:
  - a. Click Old Values. The Old Value Columns for Updates dialog box displays.
  - b. Select the Store check box for the database columns that you want to save the original values.
  - c. You can change the default names assigned to columns to store the original values. Double-click the appropriate Column Name to Store Old Value cell.
  - d. Click OK. The selected columns are displayed in the From Activity of the Map Outputs pane prefixed with the string: `old_`. You can map both the new and original values from the Map Outputs pane.

Note: For more information see [Defining Columns for Old Values in Updates](#).
8. If necessary, change the settings of the Data Type, Encoding, or Nullable values. Click the field to make a new selection.
  - o Data Type - Defaults to the data type for the column in the source database table. If the required data type for the column in the buffer table is different from the data type of the source table, select a different data type by clicking in the Data Type cell and selecting another Data Type from the list. You must select an appropriate data type for those data types that are marked UNSUPPORTED.
  - Note: For the XMLTYPE data type in an Oracle database and the MONEY data types in a SQL Server database, Studio does not automatically associate the correct data type so you must manually select the appropriate data type.
  - Attention: You must select a compatible data type with the source data type to avoid invalid data during run time. For example, do not select the SMALLINT data type for the buffer table if the source data type is INTEGER because during run time a large number stored in an INTEGER column will not convert correctly to the SMALLINT data type.
  - o Size - Size of the column defined in the table. This size is retrieved from the database table and is not configurable.
  - o Encoding - Defaults to current default encoding that was set either at the database level or the table level. If the required encoding for the column is different from the current default encoding, select another encoding by clicking in the Encoding cell and selecting another Encoding from the list.
  - o Nullable - Defaults to the nullable setting for the column in the source database table. The Use check box must be selected for those columns where `nullable=false`. A column marked `nullable=false` cannot contain a null during run time.
9. Click Reset to reset all column properties to their defaults. This also resets the Use check box for all columns.
10. Click Refresh to update the list of columns in reference to the latest state of the source database. Recent changes to the source are updated in this pane.
11. Configure the [Specifying Delivery Rules for Database Activities](#).

Note: If you select the Exactly once option in the **Delivery Rules** task, you must create control tables that are used by the Integration Appliance during run time. You create the control tables after publishing the orchestration from Studio to the Integration Appliance. You create the control tables using the Web Management Console (WMC) before you deploy the project.

Note: If you select the Exactly Once option, you must enable persistence. For more information, see [Enabling persistence](#).

12. Configure the retry options. For more information, see [Retry Options For Inbound Database Activities](#).

## Specify the target database table for the activity

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1. Click Pick Table from the **Checklist**. The Pick Table pane is displayed.
2. Click Browse... to select the target database table. The Browse Database Tables dialog box is displayed.
3. Select a table from the list and click OK. Column information for the selected table is displayed in the Pick Table pane.
4. If the character encoding for this table is different from the encoding for the database, enter another encoding using one of the following options:
  - o From the Encoding list, select one of the default encoding types.
  - o Enter your encoding type directly by clicking in the Encoding field and typing in your encoding type.

This sets the encoding for all the columns of the resulting buffer table.

Note: Some double-byte characters are not converted using the SHIFT-JIS encoding. For more information, see [Using the Shift-JIS encoding](#).
5. By default all columns in the source table are selected. Clear the Use check box to remove a column from resulting buffer table. If a column is not selected, it is not displayed in the Map Inputs pane and is not updated at run time. Click Use All to reselect all the columns.
6. Click in the heading of the column to sort the rows by the column value. For example, to sort the rows by their column name, click the Column Name heading of the column. An arrow is displayed to the right of the column header name. An up arrow indicates the column is sorted by alphabetic order starting with **a** and continuing to **z**. A down arrow indicates the column is sorted by reverse alphabetic order starting with **z** and continuing to **a**. Click the arrow to reverse the alphabetic order.
7. If necessary, change the settings of the Data Type, Encoding, or Nullable values. Click the field to make a new selection.
  - o Data Type - Defaults to the data type for the column in the source database table. If the wanted data type for the column in the buffer table is different from the data type of the source table, select a different data type by clicking in

the Data Type cell and selecting another Data Type from the list. You must select an appropriate data type for those data types that are marked UNSUPPORTED.

Note: For the XMLTYPE data type in an Oracle database and the MONEY data types in a SQL Server database, Studio does not automatically associate the correct data type so you must manually select the appropriate data type.

Attention: You must select a compatible data type with the source data type to avoid invalid data during run time. For example, do not select the SMALLINT data type for the buffer table if the source data type is INTEGER because during run time a large number stored in an INTEGER column is not converted correctly to the SMALLINT data type.

- o Size - Size of the column defined in the table. This size is retrieved from the database table and is not configurable.
- o Encoding - Defaults to current default encoding that was set either at the database level or the table level. If the wanted encoding for the column is different from the current default encoding, select another encoding by clicking in the Encoding cell and selecting another Encoding from the list. Â
- o Nullable - Defaults to the nullable setting for the column in the source database table. The Use check box must be selected for those columns where nullable=false. A column marked nullable=false cannot contain a null during run time.

8. Click Reset to reset all column properties to their defaults. This also resets the Use check box for all columns.

9. Click Refresh to update the list of columns in reference to the latest state of the source database. Recent changes to the source are updated in this pane.

10. For the **Update Rows** activity only - Select the Insert row if row does not already exist check box, if during run time you want the **Update Rows** activity to first try and update the specified row but if the row does not exist, insert the row into the database table. Â

11. For the **Update Rows** activity only - if you want to save both the new values and the original values in the database, follow these steps:

- a. Click Old Values. The Old Value Columns for Updates dialog box is displayed.
- b. Select the Store check box for the database columns that you want to save the original values.
- c. You can change the default names assigned to columns that store the original values during run time. Double-click in the appropriate Column Name to Store Old Value cell.
- d. Click OK. Â The selected columns are displayed in the To Activity of the Map Outputs pane prefixed with the string: old\_. You can map to both the new and original values from the Map Outputs pane. Â

Note: For more information see [Defining Columns for Old Values in Updates](#).

12. For the **Update Rows** or **Delete Rows** activities only - To specify acting primary key columns in addition to any primary key columns already defined by the database, follow these steps: Â

- a. Click Keys. The Configure Primary Keys dialog box is displayed.
- b. To specify a column as an acting primary key column, click the column then click >>.
- c. Click OK.

Note: If no primary keys columns (as defined by the database) were specified in the **Pick Table** task of the **Checklist**, you must specify at least one column as an acting primary key column.

Repeat this step to specify more acting primary key columns.

13. Configure the [Specifying Delivery Rules for Database Activities](#).

Note: If you select the Exactly once option in the **Delivery Rules** task, you must create control tables that are used by the Integration Appliance during run time. You create the control tables after publishing the orchestration from Studio to the Integration Appliance. You create the control tables using the Web Management Console (WMC) before you deploy the project.

Note: If you select the Exactly Once option, you must enable persistence. For more information, see [Enabling persistence](#).

14. Configure the retry options. For more information, see [Retry Options For Outbound Database Activities](#).

## Map the input of the activity

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1. Select the **Map Inputs** task in the **Checklist**.

The input parameters for the activity are displayed under the row element in the To Activity pane. The input parameters displayed in the From Activity pane correspond to the columns you selected in the **Pick Table** task. If the Batch Multiple Rows Per Message check box was selected in **Delivery Rules**, the multiple occurrences symbol displays next to the row element.

Note: For the **Get Updated Rows** activity only, if columns were selected in the Old Values Columns for Updates dialog box (in the **Pick Table** task), these additional output parameters (by default prefixed with the string: old\_) also display under the rows element. Â

2. Map all the input parameters. See [Creating a map](#) for general instructions on mapping. You must map all the input parameters of the activity.

## Map the output of the activity

---

1. Select the **Map Outputs** task in the **Checklist**.

The GetRowsCount check box determines what is displayed in the Map Outputs pane:

- o If the Get Row Counts check box is cleared in the **Delivery Rules**, the Map Outputs pane is blank.
- o If the Get Row Counts check box is selected in the **Delivery Rules**, the Map Outputs pane displays the rowCount element. Â If the Batch Multiple Rows Per Message check box is selected in the **Delivery Rules**, the multiple

occurrences symbol is displayed next to the rowCount element.

2. If the RowCount output parameter is displayed, map the RowCount output parameter if wanted. See [Creating a map](#) for general instructions on mapping. You are not required to map the output parameters of the activity. Â

**Parent topic:** [Database Activities](#)

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## Specifying Delivery Rules for Database Activities

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Specify how messages will be delivered at the Delivery Rules pane.

The delivery rules for inbound and outbound activities differ, as described in the following sections.

### Specify the delivery rules for inbound database activities

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1. Select the **Delivery Rules** task from the **Checklist**.
2. Configure the Delivery rules as described in the following table which describes the delivery rules for the inbound database activities (**Get Inserted Rows**, **Get Updated Rows**, **Get Deleted Rows**, and **Poll Table**):

Table 1.

Name	Description
Polling Interval	Specifies the time interval to poll for changes in database. For example, the <b>Get Inserted Rows</b> activity polls for INSERT trigger events at the specified time internal. For more information, see <a href="#">Polling interval behavior</a> .
Fetch size	Specifies how many rows the activity should retrieve from the buffer table at one time. The default is 500 rows per poll. The range is 1 - 10,000. Note: To improve performance, set the Fetch Size to the maximum number of rows you expect to retrieve from the buffer table.
Batch	Specifies the number of rows to batch into a single message. By default, batching is turned off (the Batch check box is not selected). To turn on batching, select the Batch check box then specify the number of rows to batch. The range is 1 - 10,000. If the Batch check box is selected in <b>Delivery Rules</b> , then the multiple occurrences symbol displays next to the row element in the From Activity pane of the <b>Map Outputs</b> task of the inbound activity.
Deliver Messages	Select from one of the following options in the Deliver messages pull-down menu: <ul style="list-style-type: none"><li>o <b>At least once</b> - Specifies the message will be delivered at least once, but can be delivered more than once. This delivery option is typically used when the receiving system can detect or tolerate duplicate messages.</li><li>o <b>Exactly once</b> - Specifies the message will be delivered once and only once. Â If the Exactly once option is selected and the database is Sybase, the OverwriteCharLimits parameter must be set in the endpoint. For more information, see <a href="#">Oracle, Sybase, DB2, and Informix Parameters</a>. Note: If you select the Exactly once option, you must create some control tables that are used by the Integration Appliance during run time. You create the control tables after publishing the orchestration from Studio to the Integration Appliance. You create the control tables using the Web Management Console (WMC) before you deploy the project. Note: If you select the Exactly Once option, you must enable persistence. For more information, see <a href="#">Enabling persistence</a>.</li></ul>
Delete rows after they have been processed	This check box is displayed only for the <b>Custom Poll</b> activity. The Delete rows after they have been processed check box is used by the Integration Appliance to determine the action for a delete request while running a <b>Poll Table</b> activity: <ul style="list-style-type: none"><li>o If the check box is enabled, during run time the Integration Appliance sets the flag column to M and then deletes the row.</li><li>o If the check box is cleared, during run time the Integration Appliance sets the flag column to M and then P but the row is not deleted.</li></ul>

## Specify the delivery rules for outbound database activities

---

1. Select the **Delivery Rules** task from the **Checklist**.
2. Configure the Delivery rules as described in the following table, which describes the deliver rules for the outbound database activities (**Insert Rows**, **Update Rows**, **Delete Rows**, **Call Procedure**):

Table 2.

Name	Description
Deliver Messages	Select from one of the following options in the Deliver messages menu: <ul style="list-style-type: none"><li>○ <b>At least once</b> - Specifies the message will be delivered at least once, but can be delivered more than once. This delivery option is typically used when the receiving system can detect or tolerate duplicate messages.</li><li>○ <b>Exactly once</b> - Specifies the message will be delivered only once.</li></ul> <p>Note: If you select the <b>Exactly once</b> option, you must create some control tables that are used by the Integration Appliance during run time. You create the control tables after publishing the orchestration from Studio to the Integration Appliance. You create the control tables using the Web Management Console (WMC) before you deploy the project.</p>
Batch __ rows at a time	Specifies if the database operations on rows should be batched and how many rows to process by the database operation at one time. For example, if the size of the batch is set to 20 but 100 rows are processed by a database insert, 5 messages of size 20 are sent from the Integration Appliance to the database and then the final database commit message is sent. <p>If the Batch __ rows at a time check box is selected in <b>Delivery Rules</b>, the multiple occurrences symbol displays next to the row element in the To Activity pane of the <b>Map Inputs</b> task of the outbound activity.</p>
Get Row Counts	Not available for the <b>Call Procedure</b> activity - This check box specifies that during run time the activity returns how many rows were processed per transaction. If the Get Rows Counts check box is selected, the rowCount is available in the From Activity pane of the Map Outputs pane of the outbound activity.

Parent topic: [Database Activities](#)

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## Viewing Column Details

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The View Column dialog box allows you to see detailed column information for tables as you enter a SQL statement in the **Enter Query** task of the **Checklist** for the **Execute Query** activity. This task describes how to access the View Column Details dialog box.

### Procedure

---

1. Create or open an **Execute Query** activity.
2. Select the **Enter Query** task from the **Checklist**. The Enter Query pane is displayed.
3. Click View Columns. The View Columns dialog box is displayed.
4. To change the data viewed in the View Columns dialog box, select from the following options:
  - To see detailed column information, select a table in the list. Column names, datatypes, sizes, and nullable properties display in the right pane.
  - To see tables in a different schema, select a schema from the Filter by User Schema list.
  - To see tables for all schemas, click Clear.
  - To filter out any buffer or control tables created by the Web Management Console (WMC) that are used internally by the Integration Appliance, select the Hide Buffer and Control Tables option.

Note: This filter only hides buffer and control tables that use the standard names generated in scripts from Studio.

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## Working with Database Parameters

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Parameters supply database-specific connection information for an endpoint.

### About this task

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You can add and delete database parameters and edit parameter values as described in the following procedures.

To add a parameter to the endpoint:

### Procedure

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1. In the Project tab, click an Endpoint.
2. Click Add. The Database Endpoint Parameters dialog box is displayed.
3. Type the name of a new parameter in the Parameter Name field.
4. Type a value for the parameter in the Parameter Value field.
5. Click OK.

### Results

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To delete a parameter from the endpoint:

1. In the Project tab, click an Endpoint.
2. Click the Parameter Name of the parameter to be deleted.
3. Click Delete.

To edit a parameter value:

1. In the Project tab, click an Endpoint.
2. Click the Parameter Value to be changed, and enter a new value in the field.
3. Press Enter.

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## Call Procedure Activity

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During run time, the Call Procedure activity runs a stored procedure in a database. The stored procedure must be written and installed in the database before you can complete the configuration of the Call Procedure activity in Studio.

Note: Function name overloading for stored procedures in the Informix® database is not supported. Stored procedures cannot have the same name in Informix even if their signatures are unique.

The steps for adding and configuring a Call Procedure activity to an orchestration are described in the following procedures:

- [Add a Call Procedure activity to the orchestration](#)
- [Create, select, or edit a database endpoint](#)

- Configure a Call Procedure activity
- Map the input of the activity
- Map the output of the activity

## Add a Call Procedure activity to the orchestration

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1. [Create](#) or open an orchestration. A graphical representation of the orchestration opens.
2. Select the Activities tab and expand the Database folder.
3. Drag the Call Procedure activity onto the orchestration.
4. Select the Call Procedure activity.

## Create, select, or edit a database endpoint

---

1. Click Pick Endpoint task from the Checklist and choose from one of the following actions:
  - Select an existing endpoint:
    - a. Select Browse. The Project Explorer opens.
    - b. Select an existing endpoint and click OK. Skip to the [Configure a Call Procedure activity](#) activity procedure.
  - Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer opens.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint pane shows.
  - Create a new endpoint:
    - a. Select New. The Create Endpoint pane opens.
2. [Create or edit a database endpoint](#)

## Configure a Call Procedure activity

---

1. Click Stored Procedure from the Checklist. The Stored Procedure pane opens.
2. Click Browse... The Browse Stored Procedures dialog box shows.
3. To see all the stored procedures in the database and not just those visible with the selected user schema, click Clear.
4. Select a Stored Procedure from the list.
5. Click OK. Parameter information for the selected stored procedure displays in the Stored Procedure pane.  
Note: Deleting stored procedure call parameters from the middle of the parameter list is not supported. If you want to specify parameters in a different order than they are displayed in the list, you can create a wrapper stored procedure (for example, *WrapperStoredProcedure1*) that doesn't have gaps in parameters (that is, contains the exact subset of the parameters needed), then have the new stored procedure call the underlying stored procedure (for example: *BackendStoredProcedure1*) using the `@parameter = value` form supported by the Microsoft SQL Server. You can then have your orchestration use the wrapper stored procedure with only the parameters needed. Alternatively, you can provide the full set of parameters without omissions and default values in Studio for the original underlying stored procedure (for example, *BackendStoredProcedure1*). Note that while deleting stored procedure call parameters from the middle of a parameter list is not supported, parameters displayed at the end of a parameter list can be deleted.
6. To change the current character encoding (originally obtained from the database endpoint), select a different [encoding](#) option from the Encoding list. This changes the default character encoding for all the input parameters of the stored procedure.
7. By default, all the input and output (`IN`, `INOUT`, `RETURN`, `OUT`) parameters of the stored procedure are selected. You do not need to include all the input and output parameters defined for a stored procedure. Clearing the Use check box for an output parameter (`INOUT`, `RETURN`, `OUT`) means that the output parameter is not available in the Map Inputs task. Clearing the Use check box for an input parameter (`IN`, `INOUT`) means that the input parameter is not available in the Map Inputs task. Clear the Use check box only for input parameters that you do not need to specify input values at run time. Some input parameters of the stored procedure may have default values.

Most databases only return a single return parameter. For these databases, if the Use check box is selected for the return parameter, the return value is returned in the single results/result/RETURN\_VALUE node in the From Activity pane of the Map Outputs task. The Informix database, however, supports multiple return parameters and for the Informix database, the return parameters are returned in the repeating results/result/result/resultsSets/any node. Even if one parameter is returned from the stored procedure, the return parameter is returned in the results/result/result/resultsSets/any node. Use the [CopyOf function](#) in the map to copy the contents of the result node (including the child node called resultSet) to a variable. In order for the CopyOf function to correctly copy the values of the source nodes to the destination nodes, the XML Schema of the destination variable must match the XML Schema of the source node. For more information, see [CopyOf function](#).

8. Click the heading of the column to sort the rows by the column value. For example, to sort the rows by their column name, click in the Column Name heading of the column. An arrow shows to the right of the column header name. An up arrow indicates the column is sorted by alphabetic order starting with a and continuing to z. A down arrow indicates the column is sorted by reverse alphabetic order starting with z and continuing to a. Click the arrow to reverse the alphabetic order.

9. If necessary, change the settings of the Data type, Encoding, or Nullable values for each query input parameter. Click the field to make a new selection:

- o Data Type - Defaults to the Data Type of the parameter. Select an alternate data type for the parameter by clicking in the Data Type cell and selecting another Data Type from the list. from the corresponding cell. You must change any data types that are UNSUPPORTED.  
Note: (for MONEY and XMLTYPE data types) For the XMLTYPE data type in an Oracle database and the MONEY data types in an SQL Server database, Studio does not automatically associate the correct data type so you must manually select the appropriate data type.
- o Encoding - Defaults to current default encoding that was set either at the database level or the table level. If the required encoding for the parameter is different from the current default encoding, select another encoding by clicking in the Encoding cell and selecting another [Encoding](#) from the list.
- o Size – Size of the column defined in the table. This size is retrieved from the database table and is not configurable.

10. Click Reset to reset all parameter properties to their defaults. This also selects the Use option for all parameters.

11. Configure [Delivery Rules](#).

Note: If you select the Exactly once option in the Delivery Rules task, you must create control tables that are used by the Integration Appliance during run time. You create the control tables after publishing the orchestration from Studio to the Integration Appliance. You create the control tables using the Web Management Console (WMC) before you deploy the project.

Note: If you select the Exactly once option, you must enable persistence. For more information, see [Enabling Persistence](#).

12. Configure the [Retry Options](#).

Â

## Map the input of the activity

---

1. Select the Map Inputs task in the Checklist. The input parameters for the activity are displayed under the calls element in the To Activity pane. The input parameters displayed in the To Activity pane correspond to the IN and INOUT parameters you selected in the Stored Procedure task. If the Batch Multiple Rows Per Message check box is selected in the Delivery Rules, the multiple occurrences icon displays next to the call element.
2. Map all the displayed input parameters. See [Creating a map](#) for general instructions on mapping.

## Map the output of the activity

---

1. Select the Map Outputs task in the Checklist. The output parameters for the activity are displayed under the results element in the From Activity pane. The output parameters displayed in the From Activity pane correspond to the OUT, RETURN, and INOUT parameters you selected in the Stored Procedure task.

If the Batch Multiple Rows Per Message check box is selected in the Delivery Rules, the multiple occurrences icon displays next to the result element.

A repeating node called resultSet displays in the From Activity pane of the Call Procedure activity even if the stored procedure has no return parameters. During run time, if the stored procedure started from the activity returns a result set, this result set is returned from the activity in the resultSet node. For example, if the stored procedure starts a select statement, the result set from the select statement is returned in the resultSet node. Use the [CopyOf function](#) in the map to copy the contents of the result node (including the child node called resultSet) to a variable. Â

Attention: In order for the CopyOf function to correctly copy the values of the source nodes to the destination nodes, the XML Schema of the destination variable must match the XML Schema of the source node. For more information, see [CopyOf function](#).

2. Map the required output parameters to variables. See [Creating a map](#) for general instructions on mapping. You are **not required** to map output parameters for this activity.

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**Parent topic:** [Database Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/db\\_call\\_procedure\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/db_call_procedure_activity.html)

# Execute Query Activity

---

During run time, the Execute Query activity runs a select SQL statement.

The Execute Query activity supports parameterized queries - a query that contains input, or input and output parameters. When input parameters are specified in a query, the value of the parameter is supplied at run time. The ? character in the following example select statement specifies that there is one input parameter:

```
select * from myUserSchema.mySourceTable where myUserSchema.mySourceTable.myColumn=?
```

In the preceding select statement, the \* character, specifies that the query returns the column or columns found in the *mySourceTable* table as the output parameter or parameters. For example, if the *mySource table* contains two columns, one of type CHAR and one of type VARCHAR, the Execute Query activity returns two output parameters, one of type CHAR and the other of type VARCHAR.

Note: Only the select SQL statement is supported in the Execute Query activity. The insert SQL statement is not supported in the Execute Query activity.

The steps for adding and configuring an Execute Query activity to an orchestration are described in the following procedures:

- [Add an Execute Query in the orchestration](#)
- [Create, select, or edit a database endpoint](#)
- [Specify the query SQL statement](#)
- [Configure the input parameters for the query](#)
- [Configure output parameters](#)
- [Specify retry options for the query](#)
- [Map the input of the activity](#)
- [Map the output of the activity](#)

## Add an Execute Query in the orchestration

---

1. [Create](#) or open an orchestration. A graphical representation of the orchestration displays.
2. Select the Activities tab and expand the Database folder.
3. Drag the Execute Query activity onto the orchestration.
4. Select the Execute Query activity

## Create, select, or edit a database endpoint

---

1. Click Pick Endpoint task from the Checklist and choose from one of the following actions:
  - Select an existing endpoint:
    - a. Select Browse. The Project Explorer opens.
    - b. Select an existing endpoint and click OK. Skip to the [Specify the query SQL statement](#) procedure.
  - Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer opens.
    - b. Select an existing endpoint and click OK
    - c. Click Edit. The Edit Endpoint pane opens.
  - Create an endpoint: Select New. The Create Endpoint pane opens.
2. [Create or edit a database endpoint](#)

## Specify the query SQL statement

---

1. Select the Enter Query task from the Checklist. The Enter Query pane opens.
  2. Enter the query in the white space displayed in the pane. Do not place semicolons at the end of your query.
  3. Click [View Columns](#) to review column details for a selected table to assist you in building your SQL statement by entering valid table names and columns.
  4. Select an alternate character [encoding](#) setting for the input and output parameters if the wanted encoding differs from the default encoding for the database using one of the following options:
    - From the Encoding list, select one of the default encoding types.
    - Enter your encoding type directly by clicking in the Encoding field and typing in your encoding type.
- Note: Some double-byte characters are not converted using the SHIFT-JIS encoding. For more information, see [Using the Shift-JIS encoding](#).
5. Click Validate Query. This action checks if your query is valid and populates input and output parameters in the Map Inputs and Map Outputs tasks.
  6. Enter a value into the MaxRows field. The MaxRows field specifies the maximum number of rows to return from the query during run time.

Note: If the same query is started multiple times on the same data, the same set of rows are returned. For example if MaxRows is equal to 1, the same row (the first row) is always returned each time the query is started - there is no iteration though the set of rows.

## Configure the input parameters for the query

---

1. Select the Setup Input Parameters task from the Checklist. The Setup Input Parameters pane shows the input parameter or parameters of the query.
2. Click [View Columns](#) to review column details for a selected table to assist you in building your SQL statement by entering valid table names and columns.
3. Click in the heading of the column to sort the rows by the column value. For example, to sort the rows by their column name, click the Column Name heading of the column. An arrow is displayed to the right of the column header name. An up arrow indicates the column is sorted by alphabetic order starting with a and continuing to z. A down arrow indicates the column is sorted by reverse alphabetic order starting with z and continuing to a. Click the arrow to reverse the alphabetic order.
4. If necessary, change the settings of the Data type, Encoding, or Nullable values for each query input parameter. Click the field to make a new selection:
  - o Parameter Name - You can change the default name to a more meaningful name. Parameters are listed in the order they are specified in the query.
  - o Data Type - Select a data type for this parameter.  
Note: **(for MONEY and XMLTYPE data types)** For the XMLTYPE data type in an Oracle database and the MONEY data types in a SQL Server database, Studio does not automatically associate the correct data type so you must manually select the appropriate data type.
  - o Encoding - Select an alternate character [encoding](#) setting for the parameter if the required encoding differs from the default encoding for the database.
  - o Size - Size of the column defined in the table. This size is retrieved from the database table and is not configurable.
5. Click Reset Values to interrogate the database and get the data types and size from the database. This overrides the data type and size set manually in the pane.

## Configure output parameters

---

1. Select the Setup Result Set task from the Checklist. The Setup Result Set pane opens and the defaults for the ouput parameter or parameters of the query are listed.
2. Click [View Columns](#) to review column details for a selected table to assist you in building your SQL statement by entering valid table names and columns.
3. If necessary, change the settings of the Data type, Encoding, or Nullable values for each query output parameter:
  - o Parameter Name - You can change the default name to a more meaningful name. Parameters are listed in the order they are specified in the query.
  - o Data Type - Select a data type for this parameter.
  - o Encoding - Select an alternate character encoding setting for the parameter if the required encoding differs from the default encoding for the database.
  - o Size - Size of the column defined in the table. This size is retrieved from the database table and is not configurable.
4. Click Reset Values to interrogate the database and get the data types and size from the database. This overrides the data type and size set manually in the pane.

## Specify retry options for the query

---

To specify the retry options for the query:

1. Configure the [Retry Options](#).  
Note: For the **Database Execute Query** activity, if you set the retry option to zero, the Integration Appliance retries the connection indefinitely.

## Map the input of the activity

---

1. Select the Map Inputs task in the Checklist. The input parameters specified for the query are the input parameters for the activity. The input parameters of the activity are displayed under the parameters element in the To Activity pane.
2. You must map all the input parameters of the activity. See [Creating a map](#) for general instructions on mapping.

## Map the output of the activity

---

1. Select the Map Outputs task in the Checklist. The columns returned by select statement are the elements displayed under the rows/row element in the From Activity pane.
2. You are not required to map the output parameters of the activity. See [Creating a map](#) for general instructions on mapping.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/db\\_execute\\_query\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/db_execute_query_activity.html)

## Poll Table Activity

---

The Poll Table activity checks if a database operation (insert or update) has occurred on any rows of a database table by checking the status of a special flag column at the specified time interval.

During run time, for the insert and update operations, the Poll Table activity returns the data that has changed in your database table and directly maps that data to variables in the orchestration while the Get Inserted Rows and Get Updated Rows activities returns the changed data into a buffer table and that buffer table is mapped to a variable in the orchestration.

Note: Use the Poll Table activity instead of the Get Inserted Rows, Get Deleted Rows, and Get Updated Rows activities only when you must avoid adding triggers to your database.

Before configuring the Poll Table activity in Studio, you must first either create two additional database columns in your source database table or use two appropriate existing database columns from your database table. The following database columns are required in your source database table:

- A sequence column of `INTEGER` type - This column contains the primary keys (a sequence of unique numbers: 1, 2, 3 ...)
- A flag column of `CHAR(1)` type - This column contains a flag that the Integration Appliance uses during run time to determine if the Integration Appliance should process the row.

Before an orchestration with a Poll Table activity is run on the Integration Appliance, you must also populate these columns in your database table. Set the flag column to `P` if you do not want the Integration Appliance to process the row during run time. Set the flag column to `null` if you want the Integration Appliance to process the row during run time.

In the following example database table, all the values in the Flag column are set initially to `P`, as shown in the following figure:

Initial state of your source database table with additional columns required by the **Poll Table** activity.

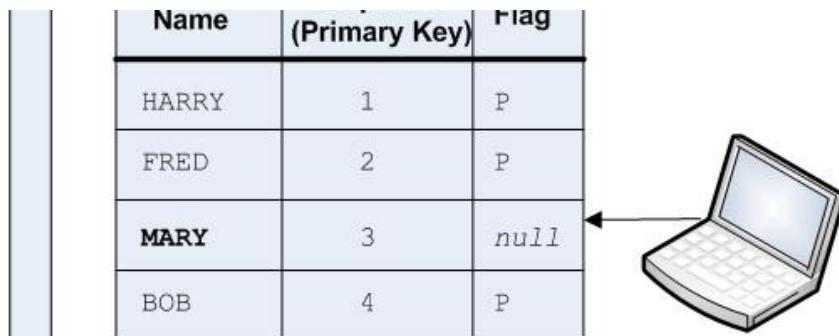
Name	Sequence (Primary Key)	Flag
HARRY	1	P
FRED	2	P
NICK	3	P
BOB	4	P

**Time (in minutes)**      1) Orchestration with **Poll Table** activity is deployed.  
This **Poll Table** activity is set to poll for a change in the database table every 1 minute.

-1-

- 2) The **Poll Table** activity polls for a change in the database table by looking for a null in the Flag column. No change, the activity does not process any data, the polling continues.
- 3) An update is done to the 3<sup>rd</sup> row in the database table from outside source as shown in the following figure.  
**NOTE:** The outside source must also change the Flag value for the 3<sup>rd</sup> row from P to null.

	Sequence	
--	----------	--



- 2- 4) The **Poll Table** activity polls for a change in the database table by checking if the value of the Flag column is set to null for any of the rows. In this example, the Integration Appliance processes the 3<sup>rd</sup> row and returns the 3<sup>rd</sup> row as data that is mapped to the specified variable(s).
- In addition, the Integration Appliance changes the Flag column for the 3<sup>rd</sup> row to P for processed.

A large grey arrow points downwards from the previous section towards this one. To its right is a table with four rows, identical to the one above it, representing the state of the database after processing the third row.

Name	Sequence (Primary Key)	Flag
HARRY	1	P
FRED	2	P
MARY	3	P
BOB	4	P

- 5) The next activity after the **Poll Table** activity in the orchestration is executed in the Integration Appliance.

Attention: You must manage the state of the flag column. After processing a row, the Integration Appliance changes the flag column to P for processed as described in the following example scenario:

1. A row is inserted into the database. The flag column is set to *null* for the row.
2. The Poll Table activity runs for the first time and sets the flag value to P for this row.
3. The same row is updated, and the Poll Table activity runs again. The row is not returned in the return data of the activity because the Integration Appliance checked the flag column and the flag indicated that this row had already been processed.

In order for a row to be processed again by the Integration Appliance, you must reset the flag column back to *null* before an orchestration job with a Poll Table activity accessing the same source database table is run.

The steps for adding and configuring a Poll Table activity to an orchestration are described in the following procedures:

- Add a Poll Table activity in the orchestration
- Create, select, or edit a database endpoint
- Specify the columns of the source table to poll for database operations
- Select the Sequence and Flag columns
- Map the output of the activity

## Add a Poll Table activity in the orchestration

1. [Create](#) or open an orchestration. A graphical representation of the orchestration opens.
2. Select the Activities tab and expand the Database folder.
3. Drag the Poll Table activity onto the orchestration.
4. Select the Poll Table activity.

## Create, select, or edit a database endpoint

---

1. Click Pick Endpoint task from the Checklist and choose from one of the following actions:
  - o Select an existing endpoint:
    - a. Select Browse. The Project Explorer opens.
    - b. Select an existing endpoint and click OK. Skip to the [Specify the columns of the source table to poll for database operations](#) procedure.
  - o Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer opens.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint pane shows.
  - o Create a new endpoint:
    - a. Select New. The Create Endpoint pane opens.
2. [Create or edit a database endpoint](#).

## Specify the columns of the source table to poll for database operations

---

1. Click Pick Endpoint from the Checklist. The Pick Endpoint pane opens.
2. Click Browse. The Select a Single Source Table dialog box opens.
3. Select a table that during run time, the Poll Table activity polls for database operations.
4. Select a user schema from the Filter by User Schema list.
5. Select Hide Buffer and Control Tables to filter out any buffer or control tables used by the Integration Appliance.  
Note: This filter only hides buffer and control tables that use the standard names generated in scripts from Studio.
6. Select a single table from the list:
  - o Click >> to add a table.
  - o Click << to remove a table.
7. If you only want to poll for database operations on primary key columns of the source table, select the Select Only the Primary Keys from Table check box.
8. Click OK. The columns of the table show in the Pick Table pane. (If you selected the Select Only the Primary Keys from Tables check box only the primary key columns display.)
9. If the character encoding for this table is different from the encoding for the database, enter another [encoding](#) using one of the following options:
  - o From the Encoding list, select one of the default encoding types.
  - o Enter your encoding type directly by clicking in the Encoding field and typing in your encoding type.
10. Select the columns in the table that during run time you want the PPoll Table activity to poll for database operations (insert, delete, or update). By default all columns are selected. Clear the Use check box for unwanted columns. Click Use All to reselect all the columns.
11. Click the heading of the column to sort the rows by the column value. For example, to sort the rows by their column name, click in the Column Name heading of the column. An arrow shows to the right of the column header name. An up arrow indicates the column is sorted by alphabetic order starting with a and continuing to z. A down arrow indicates the column is sorted by reverse alphabetic order starting with z and continuing to a. Click the arrow to reverse the alphabetic order.
12. If necessary, change the settings of the Data type, Encoding, or Nullable values for each query input parameter. Click the field to make a new selection:
  - o Data Type - Defaults to the data type for the column in the source database table. If the required data type for the column in the buffer table is different from the data type of the source table, select a different data type by clicking in the Data Type cell and selecting another Data Type from the list. You must select an appropriate data type for those data types that are marked [UNSUPPORTED](#).  
Note: (for MONEY and XMLTYPE data types) For the XMLTYPE data type in an Oracle database and the MONEY data types in a SQL Server database, Studio does not automatically associate the correct data type so you must manually select the appropriate data type.
  - o Size - Size of the column defined in the table. This size is retrieved from the database table and is not configurable
  - o Encoding - Defaults to current default encoding that was set either at the database level or the table level. If the required encoding for the column is different from the current default encoding, select another encoding by clicking in the Encoding cell and selecting another [Encoding](#) from the list.
  - o Nullable - Defaults to the nullable setting for the column in the source database table. If nullable = false, then the column must be included in the message. The Use check box must be selected for those columns where nullable=false. A column marked nullable=false cannot contain a null during run time.

## Select the Sequence and Flag columns

---

1. Select Choose Columns from the Checklist.
2. Select a Sequence Column from the list. This is the sequence column of  $\text{INTEGER}$  type containing the primary keys (a sequence of unique numbers: 1, 2, 3 ...) that you either added to your source database table or determined that you could use

an existing column in your source database table.

3. Select a Flag Column from the list. A flag column of CHAR type containing a flag that the Integration Appliance sets to *P* when the Integration Appliance has processed the row. The Integration Appliance uses sequence and flag columns to check for duplicate messages. In addition, both columns and the setting of the Delete rows after they have been processed check box in the Delivery Rules pane are used by the Integration Appliance to determine the action for a delete request:

- o If the Delete rows after they have been processed check box is selected, the Integration Appliance sets the flag to *M* and then deletes the row.
- o If the Delete rows after they have been processed check box is cleared, the Integration Appliance sets the flag to *M* and then *P* but the row is not deleted. In order for a row to be processed again by the Integration Appliance, you must reset the flag column back to *null* before an orchestration job with a Poll Table activity accessing the same source database table is run.

4. Configure the [Delivery Rules](#).

Note: If you select the Exactly once option in the Delivery Rules task, you must create control tables that are used by the Integration Appliance during run time. You create the control tables after publishing the orchestration from Studio to the Integration Appliance. You create the control tables using the Web Management Console (WMC) before you deploy the project.

Note: If you select the Exactly Once option, you must enable persistence. For more information, see [Enabling Persistence](#).

5. Configure the [Retry Options](#).

## Map the output of the activity

---

1. Select the Map Outputs task in the Checklist. The output parameters for the activity are displayed under the row element in the From Activity pane. The output parameters displayed in the From Activity pane correspond to the columns you selected in the Pick Table task. If the Batch option was selected in Delivery Rules, the multiple occurrences symbol displays next to the row element.

Note: During run time, the rows output parameter of the Poll Table activity is not populated with the sequence and flag column values. Only the columns selected in the Pick Table task are returned.

2. Map the required output parameters to variables. See [Creating a map](#) for general instructions on mapping. You are not required to map the output parameters for these activities.

**Parent topic:** [Database Activities](#)

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## Testing an SSL Database Connection

---

### About this task

---

After creating an endpoint for a database, you must import the CA certificate for the database into Studio and then test the SSL connection to the database. Perform the following procedure to import the database's CA certificate and then test the SSL connection to the database:

### Procedure

---

1. Open a command window.
2. Navigate to the database server, and locate the certificate file ca-cert stored in the server.
3. Copy this file and then navigate to the workstation where Studio is installed.
4. Using the command window, paste the ca-cert copy in the home directory of Studio: C:\Program Files\IBM\WebSphere Cast Iron Studio x.x.x
5. Navigate to the security directory of Studio: C:\Program Files\IBM\WebSphere Cast Iron Studio x.x.x\security
6. Run the following command to import the ca-cert file into Studio: ..\jre\bin\keytool.exe -import -v -keystore cacerts -storepass changeit -file ..\castiron\_ca\_cert.pem -alias alias\_name Where alias is the alias of the database CA certificate.
7. When you are prompted for a yes or no, type yes (Y) and press Enter.
8. Exit the command window.
9. Open the endpoint for the database server.

10. Verify the following login credentials for the database connection: database server, Port, User, and Password.
11. Click Test Connection
12. If the connection is successful, use this endpoint in Studio orchestrations, then use the Verify tab features to evaluate the orchestration.

**Parent topic:** [Database Activities](#)

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## Box.com Activities

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- [Overview of Box.com connector](#)
- [Creating or editing an endpoint for Box.com activity](#)
- [Create Folders activity](#)
- [Update Folders activity](#)
- [Delete Folders activity](#)
- [Get Folder Details activity](#)
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- [Create Documents for HTML View activity](#)
- [Update HTML View Documents activity](#)
- [Get Document as Extension activity](#)
- [Get HTML View Documents activity](#)
- [View Document as HTML activity](#)
- [View Box.com File as HTML activity](#)

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## Overview of Box.com connector

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The Box.com connector connects with Box.com cloud storage SaaS platform and enables the communication with Box.com from IBM Cast Iron platform. This allows users to manage their files and folders on Box.com from IBM Cast Iron platform.

Box.com is a cloud platform that helps users to securely store, share, and manage all their company's files. Whether a user needs to secure confidential business information, develop a custom mobile application, or simplify paper-based office processes, Box.com can help users do more with their content.

You can perform the following activities using Box.com connector:

- Outbound activities:
  - Create Folders
  - Update Folders
  - Delete Folders
  - Get Folder Details
  - Copy Folders
  - Create a Shared Link for a Folder
  - Upload Files
  - Download Files
  - Update Files
  - Delete Files
  - Get File Details
  - Copy Files
  - Create a Shared Link for a File
  - Search Files
  - Create Users
  - Update Users
  - Delete Users
  - Get User Details
  - Create Groups
  - Update Groups
  - Delete Groups
  - Get Group Details
  - Add Users to Groups
  - Delete Users from Groups
  - Create Folder Permissions
  - Delete Folder Permissions
  - Create Documents for HTML View
  - Update HTML View Documents
  - Get HTML View Documents
  - Get Document as Extension
  - View Document as HTML
  - View Box.com File as HTML

The Box.com API version currently supported by this connector is 2.0.

**Parent topic:** [Box.com Activities](#)

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## Creating or editing an endpoint for Box.com activity

---

Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to a Box.com. Box.com uses OAuth 2.0 authentication mechanism to authenticate and authorize users to perform operations.

- [Selecting or editing a Box.com endpoint](#)

**Parent topic:** [Box.com Activities](#)

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## Selecting or editing a Box.com endpoint

---

To select or edit a Box.com endpoint, perform the following steps:

1. In the **Create Endpoint** or **Edit Endpoint** pane, configure the Box.com endpoint as described in the following table.

**Note:** Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.

1. Click **Test Connection** to confirm that the connection details are valid and you are able to connect to the Box.com successfully.
2. Click **OK**.

*Table: Connection properties*

Field Name	Description
OAuth Access Token	OAuth access token generated from Box.com for authentication.
OAuth Refresh Token	OAuth refresh token generated from Box.com while generating OAuth Access token.
Application Client ID	Application client ID of the content API application created in Box.com for OAuth.
Application Client Secret	Application client secret of the content API application created in Box.com for OAuth
Content API URL	URL of Box.com content API with API version. This is prepopulated on the endpoint panel. Change it to specify a different content API URL.
Upload API URL	URL for the Box.com upload API with API version.
View API URL	URL of the Box.com view API with API version. This is prepopulated on the endpoint panel. Change it to specify a different view API URL.
View API Key	API key of the view API application created in Box.com.
Box FTP URL	Specifies the FTP host name of Box.com. This is prepopulated on the endpoint panel. Change it to specify a different Box.com FTP host.
User Name	Specifies the username to connect to Box.com. This is same as the Box.com user ID.
Password	Specifies the password associated with username to connect to Box.com.

**Note:** To generate the access token, refer to the Box.com documentation relating to "OAuth2 Authentication Support in Box.com REST API".

**Parent topic:** [Creating or editing an endpoint for Box.com activity](#)

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## Create Folders activity

---

This activity creates a folder at Box.com.

- [Adding the Create Folders activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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## Adding the Create Folders activity in the orchestration

---

To add the Create Folders activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com "Create Folders" activity into the orchestration.
4. Select the "Create Folders" activity in orchestration. The checklist is displayed for "Create Folders" activity.

**Parent topic:** [Create Folders activity](#)

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## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.

- iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
- c. Create a new endpoint:

- Select **New**. The **Create Endpoint** panel is displayed.
- 1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Create Folders activity](#)

---

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## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Create Folders activity](#)

---

[Feedback](#) | [Notices](#)

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## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
name	String	Yes	This is used to enter the name of the folder to be created at Box.com.
parent	Object	Yes	The parent object having parent folder details.
id	String	Yes	This is used to set the ID of the parent folder in which a new folder is to be created.

**Note:** The id of base folder at box.com is 0 (zero).

**Optional fields:** This activity does not have any optional fields.

**Parent topic:** [Create Folders activity](#)

---

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## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Create Folders activity](#)

---

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## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Create Folders activity](#)

---

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## Update Folders activity

---

This activity updates the folders details at Box.com.

- [Adding the Update Folders activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity:](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

---

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## Adding the Update Folders activity in the orchestration

---

To add the Update Folders activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.

2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com  $\sim$  Update Folders $\sim$  activity into the orchestration.
4. Select the  $\sim$  Update Folders $\sim$  activity in orchestration. The checklist is displayed for  $\sim$  Update Folders $\sim$  activity.

**Parent topic:** [Update Folders activity](#)

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## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.

1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Update Folders activity](#)

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## Configuring the activity:

---

Additional configuration is not required for this activity.

**Parent topic:** [Update Folders activity](#)

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## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has the following mandatory field:

Name	Type	Required	Description
folderId	String	Yes	This is used to specify the ID of the folder to be updated at Box.com.

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
name	String	No	This is used to specify a new name of the folder.
description	String	No	This is used to specify the description of the folder.
Parent	String	No	The parent object having parent folder details.
id	String	No	This is used to specify the ID of the parent folder.
shared_link	Object	No	An object representing this item's shared link and associated permissions.
is_password_enabled	Boolean	No	This is used to set the password for shared link. By default, the value of this flag is false.
access	String	No	The level of access required for this shared link. Can be open, company, collaborators, or null to get default share level.
permissions	Object	No	The permissions object.
can_download	Boolean	No	This is used to set whether the shared link should allow download.
can_upload	Boolean	No	This is used to set whether the shared link should allow upload.
can_rename	Boolean	No	This is used to set whether the shared link should allow renaming of folder.
can_delete	Boolean	No	This is used to set whether the shared link should allow should allow deletion of folder.
can_share	Boolean	No	This is used to set whether by using shared link the accessed folder could be shared again.
can_invite_colleague	Boolean	No	This is used to set whether collaborators can be invited using the shared link.
can_set_share_access	Boolean	No	This is used to set whether share access can be added using the shared link.
folder_upload_email	String	No	This is used to specify the email-to-upload address for this folder.
access	String	No	This is used to specify the level of access for folder. Following value can be set as open or collaborators to set level of access.
sync_state	String	No	This is used to set whether Box Sync clients synchronize this folder.
tags	Object	No	The tags object to include array of string.
element	String	No	This is array of string used to specify tags associated with the folder.

**Parent topic:** [Update Folders activity](#)

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## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Update Folders activity](#)

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[Feedback](#) | [Notices](#)

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## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Update Folders activity](#)

---

[Feedback](#) | [Notices](#)

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## Delete Folders activity

---

This activity deletes the folders at Box.com.

- [Adding the Delete Folders activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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## Adding the Delete Folders activity in the orchestration

---

To add the Delete Folders activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com → Delete Folders™ activity into the orchestration.
4. Select the → Delete Folders™ activity in orchestration. The checklist is displayed for → Delete Folders™ activity.

**Parent topic:** [Delete Folders activity](#)

---

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## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.

1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Delete Folders activity](#)

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## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Delete Folders activity](#)

---

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
id	String	Yes	This is used to set the ID of the folder to be deleted at Box.com.
recursive	Boolean	Yes	This is used to specify whether to delete this folder when it has items inside it. If set to true, the folder is deleted even when it has items in it. If set to false, the folder is not deleted when it has items inside it.

**Optional fields:** The activity does not have any optional fields.

**Parent topic:** [Delete Folders activity](#)

---

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_inputs\\_of\\_the\\_acti2.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_inputs_of_the_acti2.html)

## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Delete Folders activity](#)

---

[Feedback](#) | [Notices](#)

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## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Delete Folders activity](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

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## Get Folder Details activity

---

This activity retrieves the folder details from Box.com.

- [Adding the Get Folder Details activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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## Adding the Get Folder Details activity in the orchestration

---

To add the Get Folder Details activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com  $\sim$  Get Folder Details $\sim$  activity into the orchestration.
4. Select the  $\sim$  Get Folder Details $\sim$  activity in orchestration. The checklist is displayed for  $\sim$  Get Folder Details $\sim$  activity.

**Parent topic:** [Get Folder Details activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_adding\\_the\\_get\\_folder\\_details\\_.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_adding_the_get_folder_details_.html)

## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.

- iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
- c. Create a new endpoint:

- Select **New**. The **Create Endpoint** panel is displayed.
- 1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Get Folder Details activity](#)

---

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_creating\\_\\_selecting\\_\\_or\\_editin3.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_creating__selecting__or_editin3.html)

## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Get Folder Details activity](#)

---

[Feedback](#) | [Notices](#)

Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

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## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
inputType	String	Yes	<p>This has following two values:</p> <ul style="list-style-type: none"> <li>• Select GET_ROOT_FOLDER to get the details of root folder.</li> <li>• Select SPECIFY_YOUR_FOLDER_ID to get the folder details of any other specific folder. The value of folderId needs to be provided if this option is selected.</li> </ul>

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
folderId	String	No	The ID of the folder of which details needs to be fetched.
fields	String	No	This is used to specify the attribute(s) to include in the response object.
permis	Bool	No	This is used to specify if permission associated with folder is to be displayed in response. Set it to True to

sionInfo	lean		retrieve permissionInfo for the folder. Set it to False to omit the permissionInfo in response.
limit	Decimal	No	This is used to specify the maximum number of items to return in a page.
offset	Decimal	No	This is used to specify the value at which to begin the response. An offset of value of 0 (zero) starts at the beginning of the folder-listing.

**Parent topic:** [Get Folder Details activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_inputs\\_of\\_the\\_acti3.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_inputs_of_the_acti3.html)

## Mapping the outputs of the activity

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Get Folder Details activity](#)

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_outputs\\_of\\_the\\_act3.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_outputs_of_the_act3.html)

## Note about deploying a Box.com orchestration

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Get Folder Details activity](#)

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_note\\_about\\_deploying\\_a\\_box\\_com3.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_note_about_deploying_a_box_com3.html)

## Copy Folders activity

This activity creates a copy of folder in other folders at Box.com.

- [Adding the Copy Folders activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)

- Mapping the inputs of the activity
- Mapping the outputs of the activity
- Note about deploying a Box.com orchestration

**Parent topic:** [Box.com Activities](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_copy\\_folders\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_copy_folders_activity.html)

## Adding the Copy Folders activity in the orchestration

---

To add the Copy Folders activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com â€˜Copy Foldersâ€™ activity into the orchestration.
4. Select the â€˜Copy Foldersâ€™ activity in orchestration. The checklist is displayed for â€˜Copy Foldersâ€™ activity.

**Parent topic:** [Copy Folders activity](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_adding\\_the\\_copy\\_folders\\_activi.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_adding_the_copy_folders_activi.html)

## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Copy Folders activity](#)

---

[Feedback](#) | [Notices](#)

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## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Copy Folders activity](#)

---

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_configuring\\_the\\_activity3.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_configuring_the_activity3.html)

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
id	String	Yes	The ID of the folder to be copied at Box.com.
parent	Object	Yes	The parent object having the destination folder details.
id	String	Yes	The ID of the destination folder where the copy of folder is to be created.

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
name	String	No	The new name of the folder to be copied.

**Parent topic:** [Copy Folders activity](#)

---

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_inputs\\_of\\_the\\_acti4.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_inputs_of_the_acti4.html)

## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Copy Folders activity](#)

---

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_outputs\\_of\\_the\\_act4.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_outputs_of_the_act4.html)

## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Copy Folders activity](#)

---

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_note\\_about\\_deploying\\_a\\_box\\_com4.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_note_about_deploying_a_box_com4.html)

## Create Folder Shared Link activity

---

This activity creates shared link for a particular folder at Box.com.

- [Adding the Create Folder Shared Link activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_create\\_folder\\_shared\\_link\\_acti.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_create_folder_shared_link_acti.html)

## Adding the Create Folder Shared Link activity in the orchestration

---

To add the Create Folder Shared Link activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com "Create Folder Shared Link" activity into the orchestration.
4. Select the "Create Folder Shared Link" activity in orchestration. The checklist is displayed for "Create Folder Shared Link" activity.

**Parent topic:** [Create Folder Shared Link activity](#)

---

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016

## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Create Folder Shared Link activity](#)

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file:///dcs/markdown/workspace/Transform/out.html

http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\_com\_creating\_\_selecting\_\_or\_editin5.html

## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Create Folder Shared Link activity](#)

---

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016

file:///dcs/markdown/workspace/Transform/out.html

http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\_com\_configuring\_the\_activity4.html

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
folderId	String	Yes	The ID of the folder at Box.com for which a shared link is to be created.
shared_link	OBJEC	Yes	An object representing this item's shared link and associated permissions.

T			
access	STRING	Yes	The level of access required for this shared link. Can be open, company, collaborators, or null to get default share level.
permissions	OBJECT	Yes	The permissions object.
can_download	BOOLEAN	Yes	This is used to set whether the shared link should allow download.
can_upload	BOOLEAN	Yes	This is used to set whether the shared link should allow upload.
can_rename	BOOLEAN	Yes	This is used to set whether the shared link should allow renaming of folder.
can_delete	BOOLEAN	Yes	This is used to set whether the shared link should allow deletion of folder.
can_share	BOOLEAN	Yes	This is used to set whether by using shared link the accessed folder can be shared again.
can_invite_colleague	BOOLEAN	Yes	This is used to set whether colleagues can be invited by using the shared link.
can_set_share_access	BOOLEAN	Yes	This is used to set whether share access can be added by using the shared link.

**Optional fields:** The activity does not have any optional fields.

**Parent topic:** [Create Folder Shared Link activity](#)

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_inputs\\_of\\_the\\_acti5.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_inputs_of_the_acti5.html)

## Mapping the outputs of the activity

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Create Folder Shared Link activity](#)

[Feedback](#) | [Notices](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_outputs\\_of\\_the\\_act5.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_outputs_of_the_act5.html)

## Note about deploying a Box.com orchestration

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Create Folder Shared Link activity](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_note\\_about\\_deploying\\_a\\_box\\_com5.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_note_about_deploying_a_box_com5.html)

## Upload File activity

---

This activity uploads the file content to Box.com.

**Note:** This activity currently uses FTPs to upload the file content to Box.com.

- [Adding the Upload Files activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_upload\\_file\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_upload_file_activity.html)

## Adding the Upload Files activity in the orchestration

---

To add the Upload File activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com  $\sim$  Upload Files $\sim$  activity into the orchestration.
4. Select the  $\sim$  Upload Files $\sim$  activity in orchestration. The checklist is displayed for  $\sim$  Upload Files $\sim$  activity.

**Parent topic:** [Upload File activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_adding\\_the\\_upload\\_files\\_activi.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_adding_the_upload_files_activi.html)

## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:

- i. Select **Browse**. The Project Explorer is displayed.
  - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Upload File activity](#)

---

[Feedback](#) | [Notices](#)

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## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Upload File activity](#)

---

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_configuring\\_the\\_activity5.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_configuring_the_activity5.html)

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
uploadType	String	Yes	This is used to specify the upload mechanism for upload. Currently, upload is supported only through FTPs and by default, the UPLOAD_THROUGH_FTPS option is selected.
contentType	String	Yes	This has following two options: <ul style="list-style-type: none"> <li>• Select <b>Text</b> to upload content in text format. The textContent needs to be provided if this option is selected.</li> <li>• Select <b>Binary</b> to upload content in binary format. The binaryContent needs to be provided if this option is selected.</li> </ul>
name	String	Yes	The name of the file to be uploaded at Box.com.
folderID	String	Yes	The ID of the folder to which file is to be uploaded at Box.com.

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
textContent	String	No	The file content in text format.
binaryContent	BASE64Binary	No	The file content in binary format.

**Parent topic:** [Upload File activity](#)

[Feedback](#) | [Notices](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_inputs\\_of\\_the\\_acti6.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_inputs_of_the_acti6.html)

## Mapping the outputs of the activity

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Upload File activity](#)

[Feedback](#) | [Notices](#)

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## Note about deploying a Box.com orchestration

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Upload File activity](#)

[Feedback](#) | [Notices](#)

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## Download Files activity

This activity downloads the file content from Box.com.

- [Adding the Download Files activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)

- Mapping the outputs of the activity
- Note about deploying a Box.com orchestration

**Parent topic:** [Box.com Activities](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_download\\_files\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_download_files_activity.html)

## Adding the Download Files activity in the orchestration

---

To add the Download Files activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com "Download Files" activity into the orchestration.
4. Select the "Download Files" activity in orchestration. The checklist is displayed for "Download Files" activity.

**Parent topic:** [Download Files activity](#)

---

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_adding\\_the\\_download\\_files\\_acti.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_adding_the_download_files_acti.html)

## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Download Files activity](#)

---

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## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Download Files activity](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_configuring\\_the\\_activity6.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_configuring_the_activity6.html)

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
fileId	String	Yes	The ID of the file of which the file content is to be downloaded.
InputType	String	Yes	This drop-down list has following two values: <ul style="list-style-type: none"><li>Select LATEST_FILE to download the latest version of the file.</li><li>Select OLD_VERSION_FILE if an earlier version of file needs to be downloaded. The versionId needs to be entered if this option is selected.</li></ul>

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
versionId	String	No	This is used to set the ID-specific version of the file to download.

**Parent topic:** [Download Files activity](#)

---

[Feedback](#) | [Notices](#)

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## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Download Files activity](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_outputs\\_of\\_the\\_act7.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_outputs_of_the_act7.html)

## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Download Files activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_note\\_about\\_deploying\\_a\\_box\\_com7.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_note_about_deploying_a_box_com7.html)

## Update Files activity

---

This activity updates the files at Box.com.

- [Adding the Update Files activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_update\\_files\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_update_files_activity.html)

## Adding the Update Files activity in the orchestration

---

To add the Update Files activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com "Update Files" activity into the orchestration.
4. Select the "Update Files" activity in orchestration. The checklist is displayed for "Update Files" activity.

**Parent topic:** [Update Files activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_adding\\_the\\_update\\_files\\_activi.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_adding_the_update_files_activi.html)

## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Update Files activity](#)

 Last updated: Wednesday, 15 June 2016  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_creating\\_\\_selecting\\_\\_or\\_editin8.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_creating__selecting__or_editin8.html)

## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Update Files activity](#)

 Last updated: Wednesday, 15 June 2016  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_configuring\\_the\\_activity7.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_configuring_the_activity7.html)

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
------	------	----------	-------------

fileId	String	Yes	This is used to specify the ID of the file to be updated at Box.com.
--------	--------	-----	--

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
name	String	No	The new name for the file.
description	String	No	The new description for the file.
shared_link	Object	No	An object representing this item's shared link and associated permissions.
access	String	No	The level of access required for this shared link. Can be open, company or collaborators.
unshared_at	String	No	This is used to specify the timestamp till the shared link remains valid.
permissions	Object	No	The permission object to specify permission associated.
can_download	Boolean	No	This is used to set whether the shared link should allow download.
can_preview	Boolean	No	This is used to set whether the file can be previewed.
parent	Object	No	The parent object.
id	String	No	The ID of the parent folder.
item_status	String	No	Whether this item is deleted or not.
tags	Object	No	Object having array of strings.
elements	String	No	All tags applied to this file.

**Parent topic:** [Update Files activity](#)

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_inputs\\_of\\_the\\_acti8.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_inputs_of_the_acti8.html)

## Mapping the outputs of the activity

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Update Files activity](#)

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_outputs\\_of\\_the\\_act8.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_outputs_of_the_act8.html)

## Note about deploying a Box.com orchestration

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Update Files activity](#)

 Last updated: Wednesday, 15 June 2016  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_note\\_about\\_deploying\\_a\\_box\\_com8.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_note_about_deploying_a_box_com8.html)

## Delete Files activity

---

This activity deletes the files at Box.com.

- [Adding the Delete Files activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_delete\\_files\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_delete_files_activity.html)

## Adding the Delete Files activity in the orchestration

---

To add the Delete Files activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com  $\sim$  Delete Files $\sim$  activity into the orchestration.
4. Select the  $\sim$  Delete Files $\sim$  activity in orchestration. The checklist is displayed for  $\sim$  Delete Files $\sim$  activity.

**Parent topic:** [Delete Files activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_adding\\_the\\_delete\\_files\\_activi.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_adding_the_delete_files_activi.html)

## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.

- iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
- c. Create a new endpoint:

- Select **New**. The **Create Endpoint** panel is displayed.
- 1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Delete Files activity](#)

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 Last updated: Wednesday, 15 June 2016  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_creating\\_\\_selecting\\_\\_or\\_editin9.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_creating__selecting__or_editin9.html)

## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Delete Files activity](#)

---

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 Last updated: Wednesday, 15 June 2016  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_configuring\\_the\\_activity8.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_configuring_the_activity8.html)

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
fieldId	String	Yes	The ID of the file to be deleted from Box.com.

**Optional fields:** The activity does not have any optional fields.

**Parent topic:** [Delete Files activity](#)

---

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
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## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Delete Files activity](#)

---

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_outputs\\_of\\_the\\_act9.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_outputs_of_the_act9.html)

## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Delete Files activity](#)

---

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_note\\_about\\_deploying\\_a\\_box\\_com9.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_note_about_deploying_a_box_com9.html)

## Get File Details activity

---

This activity gets the details of file at Box.com.

- [Adding the Get File Details activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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## Adding the Get File Details activity in the orchestration

---

To add the Get File Details activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com "Get File Details" activity into the orchestration.
4. Select the "Get File Details" activity in orchestration. The checklist is displayed for "Get File Details" activity.

 Last updated: Wednesday, 15 June 2016  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_adding\\_the\\_get\\_file\\_details\\_ac.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_adding_the_get_file_details_ac.html)

## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
1. [Create or edit a Box.com endpoint](#).

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_creating\\_\\_selecting\\_\\_or\\_editin10.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_creating__selecting__or_editin10.html)

## Configuring the activity

---

Additional configuration is not required for this activity.

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_configuring\\_the\\_activity9.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_configuring_the_activity9.html)

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
inputType	String	Yes	This has following values: <ul style="list-style-type: none"><li>• Select SINGLE_FILE_INFO to get the details on specified file.</li><li>• Select FILE VERSIONS to get details about versions of file.</li><li>• Select TRASHED_FILE to get details of the deleted file.</li></ul>
fileId	String	Yes	The ID of the file of which details is to be retrieved.

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
fields	String	No	The fields that are required to be displayed in the response.
limit	Decimal	No	The maximum number of items to return in a page.
offset	Decimal	No	The value at which to begin the response.

**Parent topic:** [Get File Details activity](#)

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## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Get File Details activity](#)

---

[Feedback](#) | [Notices](#)

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## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Get File Details activity](#)

---

[Feedback](#) | [Notices](#)

Last updated: Wednesday, 15 June 2016

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## Copy Files activity

---

This activity copies files from one location to another at Box.com.

- [Adding the Copy Files activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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[Feedback](#) | [Notices](#)

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## Adding the Copy Files activity in the orchestration

---

To add the Copy Files activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com "Copy Files" activity into the orchestration.
4. Select the "Copy Files" activity in orchestration. The checklist is displayed for "Copy Files" activity.

**Parent topic:** [Copy Files activity](#)

---

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_adding\\_the\\_copy\\_files\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_adding_the_copy_files_activity.html)

## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.

1. Create or edit a Box.com endpoint.

**Parent topic:** [Copy Files activity](#)

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[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_creating\\_\\_selecting\\_\\_or\\_editin11.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_creating__selecting__or_editin11.html)

## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Copy Files activity](#)

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[Feedback](#) | [Notices](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_configuring\\_the\\_activity10.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_configuring_the_activity10.html)

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
id	String	Yes	The ID of the file at Box.com to be copied.
parent	Object	Yes	The parent object for destination folder details.
id	String	Yes	The ID of the destination folder.

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
name	String	No	A new name of the copied folder.

**Parent topic:** [Copy Files activity](#)

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## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Copy Files activity](#)

---

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_outputs\\_of\\_the\\_act11.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_outputs_of_the_act11.html)

## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Copy Files activity](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_note\\_about\\_deploying\\_a\\_box\\_com11.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_note_about_deploying_a_box_com11.html)

## Create File Shared Link activity

---

This activity creates a shared link of a file to be accessed publicly at Box.com.

- [Adding the Create File Shared Link activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_create\\_file\\_shared\\_link\\_activi.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_create_file_shared_link_activi.html)

## Adding the Create File Shared Link activity in the orchestration

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To add the Create File Shared Link activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com “Create File Shared Link” activity into the orchestration.

4. Select the “Create File Shared Link” activity in orchestration. The checklist is displayed for “Create File Shared Link” activity.

**Parent topic:** [Create File Shared Link activity](#)

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## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.

1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Create File Shared Link activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_creating\\_\\_selecting\\_\\_or\\_editin12.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_creating__selecting__or_editin12.html)

## Configuring the activity

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Additional configuration is not required for this activity.

**Parent topic:** [Create File Shared Link activity](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_configuring\\_the\\_activity11.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_configuring_the_activity11.html)

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
fileId	String	Yes	The ID of the file for which a shared link is to be created.

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
shared_link	Object	No	An object representing this item's shared link and associated permissions.
access	String	No	The level of access required for this shared link. Can be open, company, or collaborators.
unshared_at	String	No	This is used to specify the timestamp till when the shared link remains valid.
permissions	Object	No	The permission object to specify permission associated.
can_download	Boolean	No	This is used to set whether the shared link should allow download.
can_preview	Boolean	No	This is used to set whether file can be previewed.

**Parent topic:** [Create File Shared Link activity](#)

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## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Create File Shared Link activity](#)

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[Feedback](#) | [Notices](#)

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## Note about deploying a Box.com orchestration

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The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Create File Shared Link activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_note\\_about\\_deploying\\_a\\_box\\_com12.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_note_about_deploying_a_box_com12.html)

## Search Files activity

---

This activity searches data in Box.com.

- [Adding the Search Files activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_search\\_files\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_search_files_activity.html)

## Adding the Search Files activity in the orchestration

---

To add the Search Files activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com "Search Files" activity into the orchestration.
4. Select the "Search Files" activity in orchestration. The checklist is displayed for "Search Files" activity.

**Parent topic:** [Search Files activity](#)

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[Feedback](#) | [Notices](#)

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## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:

- Select **New**. The **Create Endpoint** panel is displayed.

1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Search Files activity](#)

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 Last updated: Wednesday, 15 June 2016

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## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Search Files activity](#)

---

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 Last updated: Wednesday, 15 June 2016

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## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
query	String	Yes	The search criteria to search for files in Box.com.

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
fields	String	No	The fields that user wants to get in search results.
scope	String	No	The scope for which you want to limit your search to.
file_extensions	String	No	Limit searches to specific file extensions.
created_at_range	String	No	The date for when the item was created. (ISO-8601)
updated_at_range	String	No	The date for when the item was last updated. (ISO-8601)
size_range	String	No	Filter by a file size range.
owner_user_ids	String	No	Search by item owners.
ancestor_folder_ids	String	No	Limit searches to specific parent folders.
content_types	String	No	Limit searches to specific Box designated content types.
type	String	No	The type you want to return in your search. Can be file, folder, or a web link.
limit	Decimal	No	Number of search results to return.

offset	Decimal	No	The search result at which to start the response.
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**Parent topic:** [Search Files activity](#)

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## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Search Files activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_outputs\\_of\\_the\\_act13.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_outputs_of_the_act13.html)

## Note about deploying a Box.com orchestration

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The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Search Files activity](#)

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[Feedback](#) | [Notices](#)

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## Create Users activity

---

This activity creates users at Box.com.

- [Adding the Create Users activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

 Last updated: Wednesday, 15 June 2016  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_create\\_users\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_create_users_activity.html)

## Adding the Create Users activity in the orchestration

---

To add the Create Users activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com "Create Users" activity into the orchestration.
4. Select the "Create Users" activity in orchestration. The checklist is displayed for "Create Users" activity.

**Parent topic:** [Create Users activity](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_adding\\_the\\_create\\_users\\_activi.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_adding_the_create_users_activi.html)

## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Create Users activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_creating\\_\\_selecting\\_\\_or\\_editin14.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_creating__selecting__or_editin14.html)

## Configuring the activity

---

Additional configuration is not required for this activity.

 Last updated: Wednesday, 15 June 2016  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_configuring\\_the\\_activity13.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_configuring_the_activity13.html)

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
login	String	Yes	This is used to specify email address of the user to be created at Box.com.
name	String	Yes	This is used to specify the name of the user to be created at Box.com.

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
role	String	No	This is userâ€™s enterprise role. Can be coadmin or user.
language	String	No	The language of this user ( <a href="#">ISO 639-1 Language Code</a> ).
is_sync_enabled	Boolean	No	Whether or not this user can use Box Sync.
job_title	String	No	The userâ€™s job title.
phone	String	No	The userâ€™s phone number.
address	String	No	The userâ€™s address.
space_amount	Float	No	The userâ€™s total available space amount in bytes.
tracking_codes	Object	No	An array of key/value pairs set by the userâ€™s administrator.
can_see_managed_users	Boolean	No	Whether this user can see other enterprise users in its contact list.
status	Status	No	Can be â€˜activeâ€™, â€˜inactiveâ€™, â€˜cannot_delete_editâ€™, or â€˜cannot_delete_edit_uploadâ€™.
timezone	String	No	The time zone of this user.
is_exempt_from_device_limits	Boolean	No	Whether to exempt this user from Enterprise device limits.
is_exempt_from_login_verification	Boolean	No	Whether or not this user must use two-factor authentication.

## Mapping the outputs of the activity

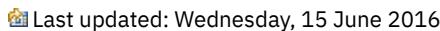
---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Create Users activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_outputs\\_of\\_the\\_act14.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_outputs_of_the_act14.html)

## Note about deploying a Box.com orchestration

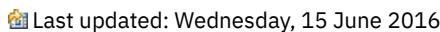
---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Create Users activity](#)

---

[Feedback](#) | [Notices](#)



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## Update Users activity

---

This activity updates the user's details at Box.com.

- [Adding the Update Users activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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[Feedback](#) | [Notices](#)



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## Adding the Update Users activity in the orchestration

---

To add the Update Users activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com → Update Users™ activity into the orchestration.
4. Select the → Update Users™ activity in orchestration. The checklist is displayed for → Update Users™ activity.

**Parent topic:** [Update Users activity](#)

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[Feedback](#) | [Notices](#)

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## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.

**Parent topic:** [Update Users activity](#)

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## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Update Users activity](#)

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[Feedback](#) | [Notices](#)

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## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
userId	String	Yes	The ID of the user to be updated.

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
name	String	No	Name of the user.
role	String	No	This user's enterprise role. Can be coadmin or user.
language	String	No	The language of this user. Type: <a href="#">ISO 639-1 Language Code</a> .
is_sync_enabled	Boolean	No	Whether or not this user can use Box Sync.
job_title	String	No	The user's job title.
phone	String	No	The user's phone number.
address	String	No	The user's address.
space_amount	Float	No	The user's total available space amount in byte. A value of -1 grants unlimited storage.
can_see_managed_users	Boolean	No	Whether this user can see other enterprise users in its contact list.
status	String	No	Can be "active", "inactive", "cannot_delete_edit", or "cannot_delete_edit_upload".
timezone	String	No	The time zone of this user.
is_exempt_from_device_limits	Boolean	No	Whether to exempt this user from Enterprise device limits.
is_exempt_from_login_verification	Boolean	No	Whether or not this user must use two-factor authentication.
is_password_reset_required	Boolean	No	Whether or not the user is required to reset password.

**Parent topic:** [Update Users activity](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_inputs\\_of\\_the\\_acti15.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_inputs_of_the_acti15.html)

## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Update Users activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_outputs\\_of\\_the\\_act15.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_outputs_of_the_act15.html)

## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Update Users activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_note\\_about\\_deploying\\_a\\_box\\_com15.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_note_about_deploying_a_box_com15.html)

## Delete Users activity

---

This activity deletes a user from Box.com.

- [Adding the Delete Users activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_delete\\_users\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_delete_users_activity.html)

## Adding the Delete Users activity in the orchestration

---

To add the Delete Users activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com connector "Delete Users" activity into the orchestration.
4. Select the "Delete Users" activity in the orchestration. The checklist is displayed for "Delete Users" activity.

**Parent topic:** [Delete Users activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_adding\\_the\\_delete\\_users\\_activi.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_adding_the_delete_users_activi.html)

## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Delete Users activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_creating\\_selecting\\_or\\_editin16.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_creating_selecting_or_editin16.html)

## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Delete Users activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_configuring\\_the\\_activity15.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_configuring_the_activity15.html)

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
------	------	----------	-------------

userId	String	Yes	The ID of the user to be deleted.
--------	--------	-----	-----------------------------------

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
notify	Boolean	No	Determines if the destination user should receive email notification of the transfer.
force	Boolean	No	Whether or not the user should be deleted even if this user still owns files.

**Parent topic:** [Delete Users activity](#)

[Feedback](#) | [Notices](#)

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## Mapping the outputs of the activity

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Delete Users activity](#)

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_outputs\\_of\\_the\\_act16.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_outputs_of_the_act16.html)

## Note about deploying a Box.com orchestration

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Delete Users activity](#)

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_note\\_about\\_deploying\\_a\\_box\\_com16.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_note_about_deploying_a_box_com16.html)

## Get User Details activity

This activity gets the details of a user from Box.com.

- [Adding the Get User Details activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)

- Mapping the inputs of the activity
- Mapping the outputs of the activity
- Note about deploying a Box.com orchestration

**Parent topic:** [Box.com Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_get\\_user\\_details\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_get_user_details_activity.html)

## Adding the Get User Details activity in the orchestration

---

To add the Get User Details activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com connector "Get User Details" activity into the orchestration.
4. Select the "Get User Details" activity in the orchestration. The checklist is displayed for "Get User Details" activity.

**Parent topic:** [Get User Details activity](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_adding\\_the\\_get\\_user\\_details\\_ac.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_adding_the_get_user_details_ac.html)

## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Get User Details activity](#)

---

[Feedback](#) | [Notices](#)

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## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Get User Details activity](#)

---

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## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
inputType	STRING	Yes	This has following values: <ul style="list-style-type: none"><li>Select CURRENT_USER to get the current user details.</li><li>Select SPECIFIC_USERS to get the details of any specific user. userId becomes mandatory if this option is selected.</li><li>Select ALL_USERS to get details of all users.</li></ul>

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
userId	STRING	No	The ID of the user for which details need to be fetched.
fields	STRING	No	The fields that are required to be displayed in the response.
includeEmailAlias	BOOLEAN	No	A collection of email aliases is returned.
includeUserGroups	BOOLEAN	No	A collection of the groups of user is returned.
limit	DECIMAL	No	The maximum number of items to return in a page.
offset	DECIMAL	No	The value at which to begin the response.

**Parent topic:** [Get User Details activity](#)

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## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Get User Details activity](#)

---

[Feedback](#) | [Notices](#)

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## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Get User Details activity](#)

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[Feedback](#) | [Notices](#)

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## Create Groups activity

---

This activity creates groups at Box.com.

- [Adding the Create Groups activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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## Adding the Create Groups activity in the orchestration

---

To add the Create Groups activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com connector  $\sim$  Create Groups $\sim$  activity into the orchestration.
4. Select the  $\sim$  Create Groups $\sim$  activity in the orchestration. The checklist is displayed for  $\sim$  Create Groups $\sim$  activity.

**Parent topic:** Create Groups activity

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## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
2. [Create or edit a Box.com endpoint](#).

**Parent topic:** Create Groups activity

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## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** Create Groups activity

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[Feedback](#) | [Notices](#)

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## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
name	String	Yes	The name is the name of the group to be created.

**Optional fields:** The activity does not have any optional fields.

**Parent topic:** [Create Groups activity](#)

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_inputs\\_of\\_the\\_acti18.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_inputs_of_the_acti18.html)

## Mapping the outputs of the activity

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Create Groups activity](#)

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## Note about deploying a Box.com orchestration

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Create Groups activity](#)

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## Update Groups activity

This activity updates a group at Box.com.

- [Adding the Update Groups activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

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## Adding the Update Groups activity in the orchestration

---

To add the Update Groups activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com connector “Update Groups” activity into the orchestration.
4. Select the “Update Groups” activity in the orchestration. The checklist is displayed for “Update Groups” activity.

**Parent topic:** [Update Groups activity](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_adding\\_the\\_update\\_groups\\_activ.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_adding_the_update_groups_activ.html)

## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Update Groups activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_creating\\_selecting\\_or\\_editin19.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_creating_selecting_or_editin19.html)

# Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Update Groups activity](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_configuring\\_the\\_activity18.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_configuring_the_activity18.html)

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
groupId	String	Yes	The ID of the group to be deleted.

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
name	String	No	The new name of the group.

**Parent topic:** [Update Groups activity](#)

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## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Update Groups activity](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_outputs\\_of\\_the\\_act19.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_outputs_of_the_act19.html)

## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Update Groups activity](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_note\\_about\\_deploying\\_a\\_box\\_com19.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_note_about_deploying_a_box_com19.html)

## Delete Groups activity

---

This activity deletes a group at Box.com.

- [Adding the Delete Groups activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_delete\\_groups\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_delete_groups_activity.html)

## Adding the Delete Groups activity in the orchestration

---

To add the Delete Groups activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com connector "Delete Groups" activity into the orchestration.
4. Select the "Delete Groups" activity in the orchestration. The checklist is displayed for "Delete Groups" activity.

**Parent topic:** [Delete Groups activity](#)

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## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Delete Groups activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_creating\\_\\_selecting\\_\\_or\\_editin20.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_creating__selecting__or_editin20.html)

## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Delete Groups activity](#)

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## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
groupId	String	Yes	This is used to specify the ID of the group to be deleted.

**Optional fields:** The activity does not have any optional fields.

**Parent topic:** [Delete Groups activity](#)

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## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Delete Groups activity](#)

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## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Delete Groups activity](#)

---

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_note\\_about\\_deploying\\_a\\_box\\_com20.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_note_about_deploying_a_box_com20.html)

## Get Group Details activity

---

This activity gets the group from Box.com.

- [Adding the Get Group Details activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

---

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# Adding the Get Group Details activity in the orchestration

---

To add the Get Group Details activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com connector “Get Group Details” activity into the orchestration.
4. Select the “Get Group Details” activity in the orchestration. The checklist is displayed for “Get Group Details” activity.

**Parent topic:** [Get Group Details activity](#)

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## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.

1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Get Group Details activity](#)

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## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Get Group Details activity](#)

---

[Feedback](#) | [Notices](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_configuring\\_the\\_activity20.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_configuring_the_activity20.html)

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
inputType	String	Yes	This has following two values: <ul style="list-style-type: none"><li>Select ALL_GROUPS to fetch details of all groups.</li><li>Select SINGLE_GROUP to fetch details of specific group. The groupId becomes mandatory if this option is selected.</li></ul>

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
fields	String	No	The fields that are required to be displayed in the response.
groupId	String	No	The ID of the group of which the details are to be fetched.
includeGroupMemberships	Boolean	No	This Boolean field is used to get all the group memberships of a user.
includeGroupPermissions	Boolean	No	This Boolean field is used to get the permissions associated with a group
limit	Decimal	No	The maximum number of items to be returned in response.
offset	Decimal	No	The value at which to begin the response.

**Parent topic:** [Get Group Details activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_inputs\\_of\\_the\\_acti21.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_inputs_of_the_acti21.html)

## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Get Group Details activity](#)

---

[Feedback](#) | [Notices](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_outputs\\_of\\_the\\_act21.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_outputs_of_the_act21.html)

## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Get Group Details activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_note\\_about\\_deploying\\_a\\_box\\_com21.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_note_about_deploying_a_box_com21.html)

## Add Users to Groups activity

---

This activity adds users to a group at Box.com.

- [Adding the Add Users to Groups activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_add\\_users\\_to\\_groups\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_add_users_to_groups_activity.html)

## Adding the Add Users to Groups activity in the orchestration

---

To add the Add Users to Groups activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com connector  $\sim$  Add Users to Groups<sup>TM</sup> activity into the orchestration.
4. Select the  $\sim$  Add Users to Groups<sup>TM</sup> activity in the orchestration. The checklist is displayed for  $\sim$  Add Users to Groups<sup>TM</sup> activity.

**Parent topic:** [Add Users to Groups activity](#)

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# Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Add Users to Groups activity](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_creating\\_\\_selecting\\_\\_or\\_editin22.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_creating__selecting__or_editin22.html)

## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Add Users to Groups activity](#)

---

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_configuring\\_the\\_activity21.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_configuring_the_activity21.html)

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
user	Object	Yes	The user object having details of user.
id	String	Yes	The ID of the Box.com user.
group	Object	Yes	The group object having details of group.
id	String	Yes	The ID of the group.

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
role	String	No	This is used to specify the role of the user in group. Role can be member or admin.

**Parent topic:** [Add Users to Groups activity](#)

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## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Add Users to Groups activity](#)

---

[Feedback](#) | [Notices](#)

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## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Add Users to Groups activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_note\\_about\\_deploying\\_a\\_box\\_com22.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_note_about_deploying_a_box_com22.html)

## Delete Users from Groups activity

---

This activity deletes users from the existing groups.

- [Adding the Delete Users from Groups activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_delete\\_users\\_from\\_groups\\_activ.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_delete_users_from_groups_activ.html)

## Adding the Delete Users from Groups activity in the orchestration

---

To add the Delete Users from Groups activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com connector "Delete Users from Groups™" activity into the orchestration.
4. Select the "Delete Users from Groups™" activity in the orchestration. The checklist is displayed for "Delete Users from Groups™" activity.

**Parent topic:** [Delete Users from Groups activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_adding\\_the\\_delete\\_users\\_from\\_g.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_adding_the_delete_users_from_g.html)

## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Delete Users from Groups activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_creating\\_selecting\\_or\\_editin23.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_creating_selecting_or_editin23.html)

# Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Delete Users from Groups activity](#)

---

[Feedback](#) | [Notices](#)

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## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
groupMembershipId	String	Yes	This is used to delete a group membership in Box.com.

**Optional fields:** The activity does not have any optional fields.

**Parent topic:** [Delete Users from Groups activity](#)

---

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_inputs\\_of\\_the\\_acti23.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_inputs_of_the_acti23.html)

## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Delete Users from Groups activity](#)

---

[Feedback](#) | [Notices](#)

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## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Delete Users from Groups activity](#)

---

[Feedback](#) | [Notices](#)

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## Create Folder Permissions activity

---

This activity creates collaboration or provides permission for the particular folder to group(s) or user(s) in Box.com.

- [Adding the Create Folder Permissions activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_create\\_folder\\_permissions\\_acti.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_create_folder_permissions_acti.html)

## Adding the Create Folder Permissions activity in the orchestration

---

To add the Create Folder Permissions activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com “Create Folder Permissions” activity into the orchestration.
4. Select the “Create Folder Permissions” activity orchestration. The checklist is displayed for “Create Folder Permissions” activity.

**Parent topic:** [Create Folder Permissions activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_adding\\_the\\_create\\_folder\\_permit.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_adding_the_create_folder_permit.html)

## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

- Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - Select an existing endpoint:
    - Select **Browse**. The Project Explorer is displayed.
    - Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - Select an existing endpoint and edit the endpoint:
    - Select **Browse**. The Project Explorer is displayed.
    - Select an existing endpoint and click **OK**.
    - Click **Edit**. The **Edit Endpoint** panel is displayed.
  - Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
    - Create or edit a Box.com endpoint.

**Parent topic:** [Create Folder Permissions activity](#)

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## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Create Folder Permissions activity](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_configuring\\_the\\_activity23.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_configuring_the_activity23.html)

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
Item	Object	Yes	The item object to specify the folder details for which permission is to be created.
type	String	Yes	The type of the item must be folder.
id	String	Yes	The ID of the folder for which permissions are to be created.
accessible_by	Object	Yes	The accessible by object to specify the details of users or groups having permission to access the folder.
type	String	Yes	This is used to specify whether the ID is of user or group.

	ng		
role	String	Yes	The access level of the collaborated item which is predefined, such as editor, viewer, previewer, uploader, previewer uploader, viewer uploader, co-owner, or owner.

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
accessible_by	Object	No	The accessible by object to specify the details of users or groups having permission to access the folder.
id	String	No	The ID of the user or group in Box.com if available.
login	String	No	This is used to specify email address of the user if user ID is not available.

**Parent topic:** [Create Folder Permissions activity](#)

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## Mapping the outputs of the activity

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Create Folder Permissions activity](#)

[Feedback](#) | [Notices](#)

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## Note about deploying a Box.com orchestration

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Create Folder Permissions activity](#)

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_note\\_about\\_deploying\\_a\\_box\\_com24.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_note_about_deploying_a_box_com24.html)

## Delete Folder Permissions activity

This activity deletes the folder collaboration or permission by taking the collaborations ID as input.

- [Adding the Delete Folder Permissions in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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## Adding the Delete Folder Permissions in the orchestration

---

To add the Delete Folder Permissions activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com connector "Delete Folder Permissions" activity into the orchestration.
4. Select the "Delete Folder Permissions" activity in the orchestration. The checklist is displayed for "Delete Folder Permissions" activity.

**Parent topic:** [Delete Folder Permissions activity](#)

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[Feedback](#) | [Notices](#)

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## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Delete Folder Permissions activity](#)

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## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Delete Folder Permissions activity](#)

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## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
collaborationsId	String	Yes	This is used to delete a collaboration or permission by using the given collaborationsId in Box.com.

**Optional fields:** The activity does not have any optional fields.

**Parent topic:** [Delete Folder Permissions activity](#)

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## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Delete Folder Permissions activity](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

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## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Delete Folder Permissions activity](#)

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## Create Documents for HTML View activity

---

This activity creates a document at Box.com for generating HTML view.

- [Adding the Create Documents for HTML View activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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## Adding the Create Documents for HTML View activity in the orchestration

---

To add the Create Documents for HTML View activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com "Create Documents for HTML View" activity into the orchestration.
4. Select the "Create Documents for HTML View" activity orchestration. The checklist is displayed for "Create Documents for HTML View" activity.

**Parent topic:** [Create Documents for HTML View activity](#)

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[Feedback](#) | [Notices](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_adding\\_the\\_create\\_documents\\_fo.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_adding_the_create_documents_fo.html)

## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Create Documents for HTML View activity](#)

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[Feedback](#) | [Notices](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_creating\\_\\_selecting\\_\\_or\\_editin26.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_creating__selecting__or_editin26.html)

## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Create Documents for HTML View activity](#)

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[Feedback](#) | [Notices](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_configuring\\_the\\_activity25.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_configuring_the_activity25.html)

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
uploadType	String	Yes	This has following values:

			<ul style="list-style-type: none"> <li>Select URL_UPLOAD to upload any document to Box.com from any URL. The URL field becomes mandatory if this option is selected.</li> </ul>
url	String	No	The publicly accessible URL of the document to be created at Box.com.

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
name	String	No	This is used to specify the name of the document to be created at Box.com.
thumbnails	String	No	Comma-separated list of thumbnail dimensions of the format {width}x{height}. For example, 128×128, 256×256
non-svg	Boolean	No	This Boolean field is used to specify whether non-SVG version of the document is to be created.

**Parent topic:** [Create Documents for HTML View activity](#)

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## Mapping the outputs of the activity

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Create Documents for HTML View activity](#)

[Feedback](#) | [Notices](#)

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## Note about deploying a Box.com orchestration

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Create Documents for HTML View activity](#)

[Feedback](#) | [Notices](#)

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# Update HTML View Documents activity

---

This activity updates the existing document for viewing as HTML at Box.com.

- [Adding the Update HTML View Documents activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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## Adding the Update HTML View Documents activity in the orchestration

---

To add the Update HTML View Documents activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com “Update HTML View Documents” activity into the orchestration.
4. Select the “Update HTML View Documents” activity to orchestration. The checklist is displayed for “Update HTML View Documents” activity.

**Parent topic:** [Update HTML View Documents activity](#)

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[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016

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## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Update HTML View Documents activity](#)

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## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Update HTML View Documents activity](#)

---

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
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## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
documentId	String	Yes	This is used to specify the ID of the specific document to be updated at Box.com.

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
name	String	No	The new name of the document.

**Parent topic:** [Update HTML View Documents activity](#)

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[Feedback](#) | [Notices](#)

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## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Update HTML View Documents activity](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

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## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Update HTML View Documents activity](#)

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## Get Document as Extension activity

---

This activity retrieves the document from Box.com in PDF or ZIP format.

- [Adding the Get Document as Extension activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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## Adding the Get Document as Extension activity in the orchestration

---

To add the Get Document as Extension activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com "Get Document as Extension" activity into the orchestration.
4. Select the "Get Document as Extension" activity orchestration. The checklist is displayed for "Get Document as Extension" activity.

**Parent topic:** [Get Document as Extension activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_adding\\_the\\_get\\_document\\_as\\_ext.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_adding_the_get_document_as_ext.html)

## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.

1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Get Document as Extension activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_creating\\_\\_selecting\\_\\_or\\_editin28.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_creating__selecting__or_editin28.html)

## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Get Document as Extension activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_configuring\\_the\\_activity27.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_configuring_the_activity27.html)

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
documentId	String	Yes	This is used to provide the ID of the document to be downloaded.

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
extension	String	No	This has following two values: <ul style="list-style-type: none"><li>• Select PDF to download the document in PDF format.</li><li>• Select ZIP to download the document in ZIP format.</li></ul>

**Parent topic:** [Get Document as Extension activity](#)

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## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Get Document as Extension activity](#)

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## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Get Document as Extension activity](#)

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 Last updated: Wednesday, 15 June 2016

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## Get HTML View Documents activity

---

This activity retrieves the document which can be shown as HTML at Box.com.

- [Adding the Get HTML View Documents activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_get\\_html\\_view\\_documents\\_activi.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_get_html_view_documents_activi.html)

## Adding the Get HTML View Documents activity in the orchestration

---

To add the Get HTML View Documents activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com “Get HTML View Documents” activity into the orchestration.
4. Select the “Get HTML View Documents” activity orchestration. The checklist is displayed for “Get HTML View Documents” activity.

**Parent topic:** [Get HTML View Documents activity](#)

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## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [Get HTML View Documents activity](#)

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## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [Get HTML View Documents activity](#)

Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_configuring\\_the\\_activity28.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_configuring_the_activity28.html)

## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
InputType	String	Yes	This has following two values: <ul style="list-style-type: none"><li>Select ALL_DOCUMENTS to fetch all the documents created in Box.com.</li><li>Select SPECIFIC_DOCUMENT to fetch any particular document from Box.com. documentId field is mandatory if this option is selected.</li></ul>

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
documentId	String	No	This is used to provide the ID of the specific document of which HTML content is to be retrieved.
fields	String	No	The names of the specific fields to be retrieved along with document content.
limit	Decimal	No	This is used to specify the maximum number of items to return in a page.
created_before	String	No	This is used to specify the timestamp to retrieve the documents created before it.
created_after	String	No	This is used to specify the timestamp to retrieve the documents created after it.

**Parent topic:** [Get HTML View Documents activity](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_inputs\\_of\\_the\\_acti29.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_inputs_of_the_acti29.html)

## Mapping the outputs of the activity

---

Create a map between the Box.com output parameters and the orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [Get HTML View Documents activity](#)

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[Feedback](#) | [Notices](#)

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## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [Get HTML View Documents activity](#)

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## View Document as HTML activity

---

The activity generates HTML view of any supported document type uploaded on Box.com View API.

- [Adding the View Document as HTML activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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[Feedback](#) | [Notices](#)

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# Adding the View Document as HTML activity in the orchestration

---

To add the View Document as HTML activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Box.com folder.
3. Drag the Box.com â€˜View Document as HTMLâ€™ activity into the orchestration.
4. Select the â€˜View Document as HTMLâ€™ activity in orchestration. The checklist is displayed for â€˜View Document as HTMLâ€™ activity.

**Parent topic:** [View Document as HTML activity](#)

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## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.

1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [View Document as HTML activity](#)

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[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
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## Configuring the activity

---

Additional configuration is not required for this activity.

**Parent topic:** [View Document as HTML activity](#)

---

[Feedback](#) | [Notices](#)

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## Mapping the inputs of the activity

---

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
document_id	String	Yes	This is used to provide the ID of the document for which HTML view is to be generated.

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
duration	String	No	The duration in minutes until the session expires.
expires_at	String	No	The timestamp at which the session should expire.
is_downloadable	Boolean	No	This Boolean field is used to specify whether a button is shown allowing the user to download the original content of the file.
is_text_selectable	Boolean	No	This Boolean field is used to specify whether text in the document is selectable by the end user.

**Parent topic:** [View Document as HTML activity](#)

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## Mapping the outputs of the activity

---

Create a map between the Box.com map output parameters and the to-orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [View Document as HTML activity](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_mapping\\_the\\_outputs\\_of\\_the\\_act30.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_mapping_the_outputs_of_the_act30.html)

## Note about deploying a Box.com orchestration

---

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_note\\_about\\_deploying\\_a\\_box\\_com30.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_note_about_deploying_a_box_com30.html)

## View Box.com File as HTML activity

---

The activity generates HTML view of any supported document type uploaded on Box.com.

- [Adding the View Box.com File as HTML as HTML activity in the orchestration](#)
- [Creating, selecting, or editing a Box.com endpoint](#)
- [Configuring the activity](#)
- [Mapping the inputs of the activity](#)
- [Mapping the outputs of the activity](#)
- [Note about deploying a Box.com orchestration](#)

**Parent topic:** [Box.com Activities](#)

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## Adding the View Box.com File as HTML as HTML activity in the orchestration

---

To add the View Box.com File as HTML activity in the orchestration, perform the following steps:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **View Box.com File as HTML** tab and expand the Box.com folder.
3. Drag the Box.com â€˜View Box.com File as HTMLâ€™ activity into the orchestration.
4. Select the â€˜View Box.com File as HTMLâ€™ activity orchestration. The checklist is displayed for â€˜View Box.com File as HTMLâ€™ activity.

**Parent topic:** [View Box.com File as HTML activity](#)

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## Creating, selecting, or editing a Box.com endpoint

---

To create, select, or edit a Box.com endpoint, perform the following steps:

1. Click the **Pick Endpoint** task from the checklist and select one of the following actions:
  - a. Select an existing endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**. Go to the [Configuring the activity](#) procedure.
  - b. Select an existing endpoint and edit the endpoint:
    - i. Select **Browse**. The Project Explorer is displayed.
    - ii. Select an existing endpoint and click **OK**.
    - iii. Click **Edit**. The **Edit Endpoint** panel is displayed.
  - c. Create a new endpoint:
    - Select **New**. The **Create Endpoint** panel is displayed.
    1. [Create or edit a Box.com endpoint](#).

**Parent topic:** [View Box.com File as HTML activity](#)

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_creating\\_\\_selecting\\_\\_or\\_editin31.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_creating__selecting__or_editin31.html)

## Configuring the activity

Additional configuration is not required for this activity.

**Parent topic:** [View Box.com File as HTML activity](#)

[Feedback](#) | [Notices](#)

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## Mapping the inputs of the activity

To map the inputs of the activity, perform the following step:

- Click the **Map Input** link in the **Configure Activity** section displayed under the orchestration.

**Mandatory fields:** The activity has following mandatory fields:

Name	Type	Required	Description
file_id	String	Yes	Box.com unique string identifying the file for which HTML view is to be generated.

**Optional fields:** The activity has following optional fields:

Name	Type	Required	Description
newDocName	String	No	This should be the new name of the document for which HTML view is to be generated.
duration	String	No	The duration in minutes until the session expires.
expires_at	String	No	The timestamp at which the session should expire.
is_downloadable	Boolean	No	This Boolean field is used to specify whether a button is shown allowing the user to download the

ble	an		original content of the file.
is_text_selectable	Boolean	No	This Boolean field is used to specify whether text in the document is selectable by the end user.

**Parent topic:** [View Box.com File as HTML activity](#)

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## Mapping the outputs of the activity

Create a map between the Box.com map output parameters and the to-orchestration variables. The expected response is generated on a successful mapping.

**Parent topic:** [View Box.com File as HTML activity](#)

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[Feedback](#) | [Notices](#)

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## Note about deploying a Box.com orchestration

The project for Box.com connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing Box.com activities is executed.

**Parent topic:** [View Box.com File as HTML activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box\\_com\\_note\\_about\\_deploying\\_a\\_box\\_com31.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Box_com_note_about_deploying_a_box_com31.html)

## Cassandra Activities

- [Overview of Cassandra Connector](#)
- [Creating or editing an endpoint for Cassandra activity](#)

Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to Cassandra platform. Cassandra uses internal authentication mechanism so as to authorize users to perform operations. Internal authentication equates to having user login accounts and their passwords being managed inside Cassandra.

- [Using the Cassandra Insert Rows Activity](#)  
Use the Insert Rows Activity to insert records in the existing tables in Cassandra.
- [Using the Cassandra Update Rows Activity](#)  
Use the Update Rows Activity to update records in Cassandra.

- [Using the Cassandra Delete Rows Activity](#)  
Use the Delete Rows Activity to delete records from Cassandra.
- [Using the Cassandra Execute Query Activity](#)  
Use the Execute Query Activity to retrieve the records from Cassandra.

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_Cassandraactivities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_Cassandraactivities.html)

## Overview of Cassandra Connector

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Apache Cassandra™, an Apache Software Foundation project, is a massively scalable NoSQL database. Cassandra is designed to handle big data workloads across multiple data centers with no single point of failure, providing enterprises with extremely high database performance and availability.

Cassandra does not use master/slave architecture, but instead uses a peer-to-peer implementation, which avoids the pitfalls, latency problems, single point of failure issues, and performance headaches associated with master/slave setups.

Cassandra™'s architecture makes it perfect for full cloud deployments as well as hybrid implementations that store some data in the cloud and other data on-premises.

A NoSQL database (sometimes called as Not Only SQL) is a database that provides a mechanism to store and retrieve data other than the tabular relations used in relational databases. These databases are schema-free, support easy replication, have simple API, eventually consistent, and can handle huge amounts of data.

You can perform the following activities using Cassandra connector:

- Insert Rows
- Update Rows
- Delete Rows
- Execute Query

The Cassandra version currently supported by this connector is 2.0.14.

**Parent topic:** [Cassandra Activities](#)

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## Creating or editing an endpoint for Cassandra activity

---

Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to Cassandra platform. Cassandra uses internal authentication mechanism so as to authorize users to perform operations. Internal authentication equates to having user login accounts and their passwords being managed inside Cassandra.

### Selecting or editing a Cassandra endpoint

---

1. In the Create Endpoint or Edit Endpoint pane, configure the Cassandra endpoint as described in the following table.  
Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.

2. Click Test Connection to confirm that the connection details are valid and you are able to connect to the Cassandra successfully.
3. Click OK.

Table 1. Connection properties

Field Name	Description
Server Details	
Node Names	Specifies the list of Nodes in the cluster for Cassandra instance
Port Number	Specifies the list of Ports in the cluster for Cassandra instance.
Authentication	
User Name	Specifies the Authentication user name used for accessing the Cassandra instance. Username should be same for all the nodes.
Password	Specifies the Authentication password used for accessing the Cassandra instance. Password should be same for all the nodes.
Additional Parameters	
Write Consistency Level	<p>The consistency level determines the number of replicas on which the write must succeed before returning an acknowledgment to the client application. Following are the Write Consistency Level supported:</p> <ul style="list-style-type: none"> <li>• ALL</li> <li>• EACH_QUORUM</li> <li>• QUORUM</li> <li>• LOCAL_QUORUM</li> <li>• ONE</li> <li>• TWO</li> <li>• THREE</li> <li>• LOCAL_ONE</li> <li>• ANY</li> </ul> <p>User can change the value by selecting any of the write consistency level.</p>
Read Consistency Level	<p>The consistency level specifies how many replicas must respond to a read request before returning data to the client application.</p> <p>Following are the Read Consistency Level supported:</p> <ul style="list-style-type: none"> <li>• ALL</li> <li>• EACH_QUORUM</li> <li>• QUORUM</li> <li>• LOCAL_QUORUM</li> <li>• ONE</li> <li>• TWO</li> <li>• THREE</li> <li>• LOCAL_ONE</li> <li>• ANY</li> </ul> <p>User can change the value by selecting any of the Read consistency level.</p>
Connection Pool Options	
Core Connections per Host	The core number of connections per host. Default value is 8 for Local Host Distance and 2 for Remote Host Distance.
Max Connections per Host	The maximum number of connections per host. Default value is 8 for Local Host Distance and 2 for Remote Host Distance.
Heartbeat Interval (seconds)	Default: 30 seconds. The driver provides application-side keep alive in the form of a connection heartbeat by sending a dummy request. The feature is enabled by default.
Pool Time Out (milli seconds)	The time duration for which the driver is blocked to wait for the connection availability from host pool. If this option is set to zero, the driver won't wait at all.
Security	

Field Name	Description
Enable Encryption	Specifies that the connection should use SSL.

Note: In addition with the above parameters; there is also a provision for Secure Connector configuration to connect the Endpoint with Cassandra instance.

## Data Types Supported by the Cassandra Connector

---

Following Data Types are supported by the Cassandra Connector:

- Ascii
- bigint
- Blob
- boolean
- Counter
- Decimal
- Double
- Float
- Inet
- Int
- List
- Map
- Set
- text
- timestamp
- timeuuid
- tuple
- uuid
- varchar
- varint

**Parent topic:** [Cassandra Activities](#)

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## Using the Cassandra Insert Rows Activity

---

Use the Insert Rows Activity to insert records in the existing tables in Cassandra.

### About this task

---

Use this task to insert rows in the Cassandra. The call to this Activity is a synchronous call where the input data is sent to the Activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Cassandra folder contents.
2. Drag the Insert Rows activity icon onto the orchestration. Select the activity. The Cassandra Insert Activity Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Cassandra endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.

8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Under Configure, click PickTable and provide Keyspace name. Click Browse to dynamically select a table from the current list of tables in the database specified by the Endpoint.

To select a table, choose one of the following options:

- o Click on a table in the list and click OK.
- o Provide the table name in the "Filter Table" section and click on search button.

Note: In the Pick Table section the checkbox "Update row if row already exists (not applicable for batch)" helps to update the existing values in the table. If the checkbox is checked then, if a record with same key already exists, it would get updated. The same is not applicable when batch is enabled in delivery rules section.

11. Review that all the columns of selected table are displayed in the grid.
  12. Encoding UTF-8 is a standard character encoding for Unicode. This is the default encoding.
  13. If in case you have added/updated/deleted the existing columns in the table, use Refresh button to get the updated column details for the selected table.
- Note:
- o To insert only one row in the database, directly select the Map Inputs section.
  - o To insert multiple records, the user needs to select the option of Delivery Rules and enable the checkbox for Batch.

14. Under Delivery Rules, select Enable Batch checkbox and define the number of rows you want to insert at a time.

- a. Once the checkbox is selected, the Batch Type will be populated in the drop down section which is as follows:
- LOGGED
  - UNLOGGED

- b. Select any one of the above batch type.

- c. The default value in the "Write Consistency Level" dropdown is the one which is selected while creating the endpoint in the test connection. User can change the value by selecting any of the consistency level.

15. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected table of the Insert Rows Activity are displayed as nodes under the request input parameter in the To Activity panel.

For Column type map<?,?>, the schema would contain key, value as a recursive element node.

The sample input request for Map data type:

```
<to_do>
    <key>Delivery</key>
    <value>Cassandra</value> </to_do> <to_do>
        <key>QA</key>
        <value>SharePoint</value>
    </to_do>
```

For Column type set<?> and List<?> the schema would contain a recursive element node.

The sample input request for Set, List data type:

```
<email>john_0@abc.com</email>
<email>john_1@abc.com</email>
<email>john_2@abc.com</email>

<projects>Cassandra</projects>
<projects>MailChimp</projects>
<projects>SharePoint</projects>
```

16. Create a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by mapping the element with an input node. During run time if no value is provided for a mandatory element, the Activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

17. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.

18. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Cassandra Insert Rows activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the Object Name (For example: Filter) field in the To Activity pane of Map Inputs, and select Expand Occurrences.

**Parent topic:** [Cassandra Activities](#)

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## Using the Cassandra Update Rows Activity

---

Use the Update Rows Activity to update records in Cassandra.

### About this task

---

Use this task to update records in the Cassandra instance. The call to this Activity is a synchronous call where the input data is sent to the Activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Cassandra folder contents.
2. Drag the Update Rows activity icon onto the orchestration. Select the activity. The Cassandra Update Rows Activity Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Cassandra endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Under Configure, click PickTable and provide Keyspace name. Click Browse to dynamically select a table from the current list of tables in the database specified by the Endpoint.

To select a table, choose one of the following options:

- o Click on a table in the list and click OK.
  - o Provide the table name in the “Filter Table” section and click on search button.
11. Review that all the columns of selected table are displayed in the grid.
  12. Encoding UTF-8 is a standard character encoding for Unicode. This is the default encoding.
  13. If in case you have added/updated/deleted the existing columns in the table, use Refresh button to get the updated column details for the selected table.  
Note:
    - o To update only one row in the database, directly select the Map Inputs section.
    - o To update multiple records, the user needs to select the option of Delivery Rules and enable the checkbox for Batch.
  14. Under Configure, click Delivery Rules. select Enable Batch checkbox and define the number of rows you want to update at a time.
    - a. Once the checkbox is selected, the Batch Type will be populated in the drop down section which is as follows:
      - LOGGED
      - UNLOGGED
      - COUNTER
    - b. Select any one of the above batch type.
    - c. The default value in the “Write Consistency Level” dropdown is the one which is selected while creating the endpoint in the test connection. User can change the value by selecting any of the consistency level.
  15. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected table of the Update Rows Activity are displayed as nodes under the request input parameter in the To Activity panel.

For Column type map<??>, the schema would contain key, value and update option.

The valid UpdateOption for map would be:

- o Add: To add the key value pair.
- o Remove: To remove the specified key. In case of remove, the value element should not be set to any value or mapping.

The sample input request for Map data type:

```
<to_do>
<key>Staging</key>
<value>Box.com</value>
<updateOption>Add</updateOption>
</to_do>
```

For Column type set<?> and List<?> the schema would contain a recursive element value and UpdateOption.

The valid UpdateOption values for Column Type List<?> are as follow:

- o Append: To append a single value at the end of the existing list.
- o Prepend: To prepend a single value at the beginning of the existing list.
- o Discard: To discard a single value from an existing list.
- o Append All: To append a collection of values at the end of the existing list.
- o Prepend All: To prepend a collection of values at the beginning of the existing list.
- o Discard All: To discard a collection of values from an existing list.

The valid UpdateOption values for Column Type Set<?> are as follow:

- o Add: To add a single value in an existing set.
- o Remove: To remove a single value from an existing set.
- o Add All: To add a collection of values in an existing set.
- o Remove All: To remove a collection of values from an existing set.

The sample input request for List, Set data type:

```
<email>
<value>john_3@abc.com</value>
<value>john_4@abc.com</value>
<value>john_5@abc.com</value>
<updateOption>Append</updateOption>
</email>

<projects>
<value>Salesforce.com</value>
<value>Box.com</value>
<value>SL</value>
<updateOption>Add All</updateOption>
</projects>
```

16. Create a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by mapping the element with an input node. During run time if no value is provided for a mandatory element, the Activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

17. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.

18. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Cassandra Update Rows activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the Object Name (For example: Filter) field in the To Activity pane of Map Inputs, and select Expand Occurrences.

**Parent topic:** [Cassandra Activities](#)

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## Using the Cassandra Delete Rows Activity

Use the Delete Rows Activity to delete records from Cassandra.

### About this task

Use this task to Delete Row from the Cassandra instance as well as to delete the single column data from the database. The call to this Activity is a synchronous call where the input data is sent to the Activity for processing and the response is sent back to the orchestration.

### Procedure

1. In an active orchestration, open the Activities tab and expand the Cassandra folder contents.
2. Drag the Delete Rows activity icon onto the orchestration. Select the activity. The Cassandra Delete Rows Activity Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Cassandra endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Under Configure, click Pick Table and provide Keyspace name. Click Browse and select the respective table.

To select a table, choose one of the following options:

- o Click on a table in the list and click OK.
- o Provide the table name in the "Filter Table" section and click on search button.

11. Encoding UTF-8 is a standard character encoding for Unicode. This is the default encoding.

Note:

- o To delete only one row in the database, directly select the Map Inputs section.
- o To delete multiple records, the user needs to select the option of Delivery Rules and enable the checkbox for Batch.

12. Under Configure, click Delivery Rules. Select Enable Batch checkbox and define the number of rows you want to delete at a time.

- a. Once the checkbox is selected, the Batch Type will be populated in the drop down section which is as follows:

- LOGGED
- UNLOGGED
- COUNTER

- b. Select any one of the above batch type.

- c. The default value in the "Write Consistency Level" dropdown is the one which is selected while creating the endpoint in the test connection. User can change the value by selecting any of the consistency level.

13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected table of the Delete Rows Activity are displayed as nodes under the request input parameter in the To Activity panel.

Following are the two cases for Delete:

- o Row Level Delete: Delete entire row based on the primary key value only
  - o Column Level Delete: Delete values of a column from the rows based on the primary key and column name values
- Note: The user has to specify the column names in the recurring "columnsToDelete" node. If "columnsToDelete" is empty, then entire row would be deleted based on the primary key values, else it would be considered as column level delete.
14. Create a map between the orchestration variables and the input parameter of the activity.
- Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by mapping the element with an input node. During run time if no value is provided for a mandatory element, the Activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.
- 289

## Results

---

You have configured the Cassandra Delete Rows activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the Object Name field in the To Activity pane of Map Inputs, and select Expand Occurrences.

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## Using the Cassandra Execute Query Activity

---

Use the Execute Query Activity to retrieve the records from Cassandra.

### About this task

---

Use this task to retrieve records from the Cassandra instance. The call to this Activity is a synchronous call where the input data is sent to the Activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Cassandra folder contents.
2. Drag the Execute Query activity icon onto the orchestration. Select the activity. The Cassandra Execute Query Activity Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Cassandra endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Under Configure, click Enter Query and provide the query in the white space displayed in the pane. Do not place semicolons at the end of your query.  
Note: Only the select SQL statement is supported in the Execute Query Activity.
11. Validate the Query using ValidateQuery button.
12. The default value in the Consistency Level dropdown is the one which is selected while creating the endpoint in the test connection. User can change the value by selecting any of the consistency level.
13. Under Configure, select the Setup Input Parameters task. The Setup Input Parameters pane shows the input parameter or parameters of the query. If no query parameter is provided in where clause then Setup Input Parameter section will be empty.
14. Under Configure, select the Setup Result Set task. The Setup Result Set pane opens and the defaults for the output parameter or parameters of the query are listed.  
Note:
  - o The column names mentioned in the select clause will get displayed in the Setup Result Set section.
  - o If `~*` is mentioned in the select clause then all the column names from the table will get displayed in Setup Result Set section.
15. Select the Map Inputs in the Checklist. The XML Schemas generated from the Setup input parameter of the Execute Query Activity are displayed as nodes under the request input parameter in the To Activity panel.
16. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by mapping the element with an input node. During run time if no value is provided for

a mandatory element, the Activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

17. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
18. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Cassandra Execute Query activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the Object Name field in the To Activity pane of Map Inputs, and select Expand Occurrences.

**Parent topic:** [Cassandra Activities](#)

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## Coupa Activities

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- [Custom Fields support](#)
- [Objects Supported by the Coupa Connector](#)
- [Using the Coupa Create activity](#)
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## Creating or editing an endpoint for Coupa activity

---

Endpoints provide the configuration information that the Studio, the Integration Appliance and the cloud based Cast Iron Live platform use to connect to a Coupa. Coupa uses token based authentication mechanism to authenticate and authorize users to perform operations.

Selecting or editing a Coupa endpoint

To select or edit a Coupa endpoint:

1. In the **Create Endpoint** or **Edit Endpoint** pane, configure the Coupa endpoint as described in the following table.

Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.

1. Click **Test Connection** to confirm that the connection details are valid and you are able to connect to the Coupa successfully.
2. Click **OK**.

*Table: Connection properties*

Field Name	Description
Host Name	Coupa host name
API Key	API key generated from Coupa

**Note:** To generate the API key, refer to the Coupa documentation relating to "Coupa API authentication".

*Table: Proxy Connection properties*

Field Name	Description
Proxy Host	Host name of the proxy server
Proxy Port	Port number needed to connect to the proxy server
Proxy User Name	User name needed to connect to the proxy server
Proxy Password	Password needed to connect to the proxy server

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## Custom Fields support

Coupa supports custom fields. Provision is given in the connector to create, update and retrieve objects having custom fields.

For Create and Update activities, in the MapInputs, each object and its child nodes will have additional nodes for custom fields so that user can provide values for them.

For Query and Retrieve activities, the response object will have additional nodes to identify the custom fields.

The format of custom fields for these activities is as shown below:

```
<customFields>
<customFieldName>dept-id</customFieldName>
<customFieldValue>HR</customFieldValue>
</customFields>
```

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## Objects Supported by the Coupa Connector

The below objects are supported by Coupa Connector:

X = Operation is supported for the object

Coupa Master Data Objects	Coupa R22			
Create	Retrieve	Update	Query	
Accounts	X	X	X	X
Addresses	X	X	X	X
Budget Lines	X	X	X	X
Currencies	Â	X	Â	X
Exchange Rates	X	X	Â	X
Catalog Items	X	X	X	X
Supplier Items	X	X	Â	X
Suppliers	X	X	X	X
Users	X	X	X	X
Contracts	X	X	X	X
Departments	X	X	X	X
Remit To Addresses	X	X	X	X
Account Validation Rules	X	X	X	X
Content Groups	X	X	Â	X
Lookup Values	X	X	X	X

Coupa Transactional Data Objects	Coupa R22			
Create	Retrieve	Update	Query	
Approvals*	Â	Â	Â	Â
Expense Reports	X	X	X	X
Inventory Transactions	X	X	Â	X
Invoices	Â	X	X	X
Invoice Payments	Â	Â	X	Â
Purchase Orders	Â	X	X	X
Requisitions	X	X	Â	X
Purchase Order Revisions	Â	X	Â	X
Expenses Lines	Â	X	Â	X

**\*Note:** Metadata is not retrieved for Approval object, hence the object is not supported in the connector.

**Parent topic:** [Coupa Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Coupa\\_objects\\_supported\\_by\\_the\\_coupa.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Coupa_objects_supported_by_the_coupa.html)

## Using the Coupa Create activity

Use the Coupa Create activity to create objects in the Coupa instance.

Use this task to create objects in the Coupa instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

1. In an active orchestration, open the **Activities** tab and expand the **Coupa** folder contents.
2. Drag the **Create** activity icon onto the orchestration. The Coupa Create Object **Checklist** is displayed.
3. In the **Checklist**, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the **Checklist**, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant Coupa endpoint.
7. Optional: You can create the endpoint by clicking **New** and specifying the required connection details. Click **OK** to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the **Checklist**, click **Configure**.
10. Click **Browse** to select the object type. The **Browse Coupa** window is displayed.
11. In **Browse Coupa**, you can either filter the object type by specifying the object type in the **Search for an object type** field, or select the object type from the object type list. Click **OK**. The object field preferences are displayed.
12. In **Object Field Preferences**, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the **Checklist**, click **Retry**. Review the default settings and make the required changes.
14. Select the **Map Inputs** in the **Checklist**. The XML Schemas generated from the selected object of the **Create Objects** activity are displayed as nodes under the request input parameter in the **To Activity** panel.
15. Create a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the **Map Outputs** in the **Checklist**. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

You have configured the Coupa Create Objects activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the **cObject** in the **To Activity** pane of **Map Inputs**, and select **Expand Occurrences**.

**Parent topic:** [Coupa Activities](#)

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#### [Feedback | Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Coupa\\_using\\_the\\_coupa\\_create\\_activit.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Coupa_using_the_coupa_create_activit.html)

## Using the Coupa Query activity

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Use the Coupa Query activity to filter and fetch objects in the Coupa instance.

Use this task to filter and fetch objects in the Coupa instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

1. In an active orchestration, open the **Activities** tab and expand the **Coupa** folder contents.
2. Drag the **Query** activity icon onto the orchestration. The Coupa Query Object **Checklist** is displayed.
3. In the **Checklist**, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the **Checklist**, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant Coupa endpoint.
7. Optional: You can create the endpoint by clicking **New** and specifying the required connection details. Click **OK** to save and use the endpoint for this configuration.

8. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the **Checklist**, click **Configure**.
10. Click **Browse** to select the object type. The **Browse Coupa** window is displayed.
11. In **Browse Coupa**, you can either filter the object type by specifying the object type in the **Search for an object type** field, or select the object type from the object type list. Click **OK**. The object field preferences are displayed.
12. In **Object Field Preferences**, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the **Checklist**, click **Retry**. Review the default settings and make the required changes.
14. Select the **Map Inputs** in the **Checklist**. The XML Schemas generated from the selected object of the **Query Objects** activity are displayed as nodes under the request input parameter in the **To Activity** panel.
15. Create a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the **Map Outputs** in the **Checklist**. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

*Table: Map Inputs parameters*

Field Name	Description
limit	The parameter is used to paginate the results. It will limit the number of records retrieved to the specified value. The maximum number of results returned are 50 at a time even if the <b>limit</b> value is given more than 50.
offset	The parameter is used to paginate the results. The records are retrieved starting from the specified offset.
operators	The search criteria. Multiple criteria can be specified by expanding occurrences for <b>operators</b> .
standardFieldName	The standard field name to be used in the criteria. Either of <b>standardFieldName</b> or <b>customFieldName</b> should be specified. Only first level field names should be specified.
customFieldName	The custom field name to be used in the criteria. Either of <b>standardFieldName</b> or <b>customFieldName</b> should be specified. Only first level field names should be specified.
operator	The operator to be applied.
value	The value of the field used in the search

You have configured the Coupa Query Objects activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the **To Activity** pane of **Map Inputs**, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

**Parent topic:** [Coupa Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Coupa\\_using\\_the\\_coupa\\_query\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Coupa_using_the_coupa_query_activity.html)

## Using the Coupa Retrieve activity

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Use the Coupa Retrieve activity to retrieve objects in the Coupa instance.

Use this task to retrieve all objects based on ID in the Coupa instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

1. In an active orchestration, open the **Activities** tab and expand the **Coupa** folder contents.

2. Drag the **Retrieve** activity icon onto the orchestration. The Coupa Retrieve Object **Checklist** is displayed.
3. In the **Checklist**, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the **Checklist**, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant Coupa endpoint.
7. Optional: You can create the endpoint by clicking **New** and specifying the required connection details. Click **OK** to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the **Checklist**, click **Configure**.
10. Click **Browse** to select the object type. The **Browse Coupa** window is displayed.
11. In **Browse Coupa**, you can either filter the object type by specifying the object type in the **Search for an object type** field, or select the object type from the object type list. Click **OK**. The object field preferences are displayed.
12. In **Object Field Preferences**, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the **Checklist**, click **Retry**. Review the default settings and make the required changes.
14. Select the **Map Inputs** in the **Checklist**. The XML Schemas generated from the selected object of the **Retrieve Objects** activity are displayed as nodes under the request input parameter in the **To Activity** panel.
15. Create a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the **Map Outputs** in the **Checklist**. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

*Table: Map Inputs parameters*

Field Name	Description
retrieveAll	If the user wants to fetch all the records of a particular object type, then he should set this parameter to <b>true</b> . Default value is <b>false</b> . The parameter is ignored if value for <b>id</b> is specified.
limit	Applicable only if <b>retrieveAll</b> is <b>true</b> . The parameter is used to paginate the results. It will limit the number of records retrieved to the specified value. The maximum number of results returned are 50 at a time even if the <b>limit</b> value is given more than 50.
offset	Applicable only if <b>retrieveAll</b> is <b>true</b> . The parameter is used to paginate the results. The records are retrieved starting from the specified offset.
id	The object id for which data has to be retrieved. This parameter is given preference over <b>retrieveAll</b> , the value of <b>retrieveAll</b> is ignored if <b>id</b> is specified.
supplierId	The associated supplier id. Applicable only for <b>RemitToAddress</b> object.

You have configured the Coupa Retrieve Objects activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the **ID** field in the object in the **To Activity** pane of **Map Inputs**, and select **Expand Occurrences**.

**Parent topic:** [Coupa Activities](#)

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## Using the Coupa Update activity

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Use the Coupa Update activity to update objects in the Coupa instance. Coupa does not support “Delete” operation via the API, so the activity can be used to deactivate objects by setting the status to “inactive”.

Use this task to update objects in the Coupa instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

1. In an active orchestration, open the **Activities** tab and expand the **Coupa** folder contents.
2. Drag the **Update** activity icon onto the orchestration. The Coupa Update Object **Checklist** is displayed.
3. In the **Checklist**, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the **Checklist**, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant Coupa endpoint.
7. Optional: You can create the endpoint by clicking **New** and specifying the required connection details. Click **OK** to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the **Checklist**, click **Configure**.
10. Click **Browse** to select the object type. The **Browse Coupa** window is displayed.
11. In **Browse Coupa**, you can either filter the object type by specifying the object type in the **Search for an object type** field, or select the object type from the object type list. Click **OK**. The object field preferences are displayed.
12. In **Object Field Preferences**, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the **Checklist**, click **Retry**. Review the default settings and make the required changes.
14. Select the **Map Inputs** in the **Checklist**. The XML Schemas generated from the selected object of the **Update Objects** activity are displayed as nodes under the request input parameter in the **To Activity** panel.
15. Create a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the **Map Outputs** in the **Checklist**. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

You have configured the Coupa Update Objects activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the **cObject** in the **To Activity** pane of **Map Inputs**, and select **Expand Occurrences**.

**Parent topic:** [Coupa Activities](#)

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## Domino Activities

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- [Overview of the Domino connector](#)
- [Creating or editing an endpoint for a Domino activity](#)

Endpoints provide the configuration information that Studio and the Integration Appliance use to connect to a IBM® Lotus® Domino® server. Lotus Domino server provides services like email server, application server, web server, database server, and

directory server. Business data on the server is stored as documents in the Domino databases (.nsf files). Domino connector provides bidirectional connectivity to work with these documents.Â

- [Creating a Domino document](#)

Use the Create Document activity to create a document in the Domino server.

- [Updating a Domino document](#)

Use the Update Document activity to update a document in the Domino database. Each updated document must be uniquely identifiable by its UniversalID or NotesID.

- [Retrieving a Domino document](#)

Using the Retrieve Activity, you can retrieve a document from a Domino database. Each retrieved document is uniquely identified by its UniversalID or NotesID. The retrieval is done based on the input, that is, either the UniversalID or the NotesID.

- [Querying Domino documents](#)

The Query Document activity is used to query documents from the database in the LotusÂ® DominoÂ® server that matches the values that are specified in the document fields.

- [Querying views for Domino documents](#)

The Query Views activity is used to query views from the database in the LotusÂ® DominoÂ® server that matches the values that are specified in the document fields that are present in the view.

- [Deleting a Domino document](#)

Use the Delete Activity to delete a document from the Domino database. Each deleted document must be uniquely identifiable by its UniversalID or NotesID.

- [Getting events from Domino server](#)

The Get Events activity is used to get events from the database in the IBM DominoÂ® server that matches the values that are specified in the input fields of Map Inputs.

- [Getting invitations from Domino server](#)

The Get Invitations activity is used to get invitations from the database in the IBM DominoÂ® server that matches the values that are specified in the input fields of Map Inputs.

- [Getting notices from Domino server](#)

The Get Notices activity is used to get notices from the database in the IBM DominoÂ® server that matches the values that are specified in the input fields of Map Inputs.

- [Processing calendar events in Domino server](#)

The Process Calendar Events activity is used to process an action on an existing calendar event in a database in the IBM DominoÂ® server that matches the values that are specified in the input fields that are present in the Map Inputs.

- [Processing calendar notices in Domino server](#)

The Process Calendar Notices activity is used to process an action on an existing calendar Notice in a database of the IBM DominoÂ® server that matches the values that are specified in the input fields present in Map Inputs.

- [Creating calendar events in Domino server](#)

The Create Calendar Events activity is used to create the calendar events from the database in the IBM DominoÂ® server that matches the values that are specified in the input fields of Map Inputs.

- [Updating calendar events in Domino server](#)

The Update Calendar Events activity is used to update the calendar events from the database in the IBM DominoÂ® server that matches the values that are specified in the input fields of Map Inputs.

- [Deleting calendar events from Domino server](#)

The Delete Calendar Events activity is used to delete calendar events from the database in the IBM DominoÂ® server that matches the values that are specified in the input fields of Map Inputs.

- [Specifying Retry and Delivery Options for Domino activities](#)

Specifying the Retry and Delivery parameters is one of the tasks to configure a Domino activity configuration.

- [Prerequisites to use Domino inbound activities](#)

- [Get Created Documents activity](#)

Use the Get Created Documents activity to get the documents (which are of interest) that were created on the Domino server.

The activity polls the event table in the Domino server for new events periodically and process them.

- [Get Updated Documents activity](#)

Use the Get Updated Documents activity to get the documents (which are of interest) that got updated on the Domino server.

The activity polls the event table in the Domino server for new events periodically and process them.

- [Get Deleted Documents activity](#)

Use the Get Deleted Documents activity to get the documents (which are of interest) that were deleted on the Domino server.

The activity polls the event table in the Domino server for new events periodically and process them.

- [Handling Date/Time and Time zone data types](#)

In the Lotus Domino form, a field of Date/Time type can be configured to represent only a date value, time value, or both date and time values. This configuration is done while creating/editing the form in Domino Designer. So, when a document is created for such a form, the value can be a date, time, or a datetime.

- [Rich text support for Domino connector](#)

The Domino connector supports RichText type in forms. Fields of RichText type can store both text and attachments as part of the document. The connector supports attachments only for the Retrieve and Query Document activities. Text content can be used for the Create, Update, Retrieve, and Query Document activities.

- **Troubleshooting and support**

Troubleshooting techniques and self-help information help you identify and solve problems quickly. This topic provides potential solutions for issues you would have with the Domino connector.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_dominoactivities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_dominoactivities.html)

## Overview of the Domino connector

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The Domino® connector enables a two-way communication between Cast Iron® and IBM Domino server. The business data can be Domino documents such as a calendar entry, a to-do item, or a note.

You can perform the following activities using the Domino connector:

- Outbound Activities
  - [Create Documents](#)
  - [Update Documents](#)
  - [Delete Documents](#)
  - [Query Documents](#)
  - [Query Views](#)
  - [Retrieve Documents](#)
  - [Get Events](#)
  - [Get Invitations](#)
  - [Get Notices](#)
  - [Process Calendar Events](#)
  - [Process Calendar Notices](#)
  - [Create Calendar Events](#)
  - [Update Calendar Events](#)
  - [Delete Calendar Events](#)
- Inbound/Starter Activities
  - [Get Created Documents](#)
  - [Get Updated Documents](#)
  - [Get Deleted Documents](#)

The Calendar Service is an addition to the family of REST services in the IBM Domino Server, from V9.0.1. Using Calendar Service you can perform create/retrieve/update/delete operations on the Calendar Events, Invitations, and Notices. An event in Domino stands for a Meeting, Recursive Meeting, All Day Event, Appointment, Recursive Appointment, and a Reminder. A Notice can be an Invitation for a Calendar Event or an update information of a Calendar Event.

The Domino connector supports the REST Based APIs of Calendar Service of IBM Domino Server from V7.0.0.1. The activities listed below are added to support this service :

- Create Calendar Events
- Update Calendar Events
- Delete Calendar Events
- Get Events
- Get Invitations
- Get Notices
- Process Calendar Events
- Process Calendar Notices

The versions of IBM Domino supported by the connector depend on the support lifecycle of IBM Domino. You can configure the connector with all the versions of IBM Domino that are currently supported. The IBM Domino versions that are currently supported are 8.0.x, 8.5.x, 9.0, and 9.0.1. The Domino connector cannot be used to connect to a Lotus Notes® client directly. It always connects to the IBM Domino server.

**Parent topic:** [Domino Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Domino\\_Overview.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Domino_Overview.html)

## Creating or editing an endpoint for a Domino activity

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Endpoints provide the configuration information that Studio and the Integration Appliance use to connect to a IBM® Lotus® Domino® server. Lotus Domino server provides services like email server, application server, web server, database server, and directory server. Business data on the server is stored as documents in the Domino databases (.nsf files). Domino connector provides bidirectional connectivity to work with these documents.Â

### Selecting or editing a Domino endpoint

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1. In the Create Endpoint or Edit Endpoint pane, configure the Domino server as described in the following table. In addition to these fields, the endpoint pane contains Connection pool options and Remote Endpoint Configuration.  
Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.
2. Click Test Connection to confirm that the connection details are valid and you are able to connect to the Domino server successfully.
3. Click OK.

Table 1. Connection properties

Field Name	Description
<b>Domino Server Configuration</b>	
Host Name	Specifies the host name or IP address of the machine on which Domino server is running.
DIIOP Port	Specifies the Domino Internet Inter ORB Protocol (DIIOP) port that allows Java, applets or applications to access Domino data remotely using CORBA. The default value is 63148.
User Name	Specifies the user name to connect to the Domino server.
Password	Specifies the password associated with the user name to connect to the Domino server.
Note: For outbound activities such as Create, Update, Retrieve, Query, and Delete, you can dynamically specify a different Domino server during Map Inputs. The server details in the Map Inputs section holds preference to the regular endpoint declaration.	
<b>Connection Pool options</b>	
Minimum Connections	Specifies the lowest number of Domino server connections that the Integration Appliance keeps open in the connection pool. Entering 0 (zero) is supported. The default value is 5.
Maximum Connections	Specifies the maximum number of Domino server connections that the Integration Appliance can keep open in the connection pool. Entering 0 (zero) means the maximum number of connections is unbounded. The default value is 25.
Maximum Idle Time	Specifies the amount of time in minutes that a Domino server connection can be open in an idle state before being closed by the Integration Appliance. Entering 0 (zero) means that the connections are closed when they are returned to the pool â€œno idle time. The default value is 120 minutes.
Maximum Wait	Specifies the amount of time in seconds that the Integration Appliance waits for a connection when all the connections in the pool are exhausted. If no connection is obtained after the wait time, an exception is thrown. The default value is 300 seconds.
Reclaim Connections	Specifies the interval at which the connector checks for idle connections. Idle connections are reclaimed until the minimum number of connections is reached, as specified in the Minimum Connections parameter. The default value is 5 minute.
Â	Note: The Connection pool properties need to be configured as per the load (number of concurrent requests) on the endpoint.

Field Name	Description
<b>Remote Endpoint Configuration</b>	
Endpoint Runs Behind Firewall	Enables the secure connector name property so that secure connector can be used if the Lotus Domino server is running behind a firewall.
Secure Connector Name	Specifies the name of the secure connector that is used to connect to the Lotus Domino server running behind a firewall. For example, if an orchestration containing Domino activity is deployed on to Cast Iron Live (cloud), then the secure connector needs to be configured.

**Parent topic:** [Domino Activities](#)

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## Creating a Domino document

Use the Create Document activity to create a document in the Domino® server.

### Using the create activity

1. Right-click **Orchestration** in the **Project** pane and click **New Orchestration** to create or open an orchestration. The orchestration pane is displayed.
2. Select the **Activities** tab and expand the **Domino** folder.
3. Drag **Create Document** activity from the **Domino** folder onto the orchestration. The graphical representation of the orchestration, including the checklist is displayed.
4. The **Checklist** pane lists the tasks (**Summary**, **Pick Endpoint**, **Configure**, **Map inputs**, **Map outputs**) that you must complete to configure the outbound activity.
5. Click **Pick Endpoint**, and then select a Domino endpoint.

For instructions on creating or editing a Domino endpoint, see [Creating or editing an endpoint for a Domino activity](#)

6. Click **Configure** from the Checklist. The Configure pane is displayed.
  - Click **Browse** to select an existing database from the **Browse Domino databases** pane. The **Browse Domino databases** display all the databases for the selected endpoint.
  - Click **Next** to select an existing form from the **Browse Domino Forms** pane. The **Browse Domino Forms** displays all the forms present in the selected database of the Domino server.

Note: The Next button is enabled only after selecting the database name.

### Specifying the map inputs for create activity

1. Click **Map Input** from the **Checklist** pane.

The input parameters for the specific Domino activity are displayed under the **To Activity** pane.

Note: You *must* map all the required input parameters of the activity, whose data comes from previous activity.

Note: To populate dynamically added fields of the Domino document, which are not part of the map inputs structure, use the **AdditionalFields** property and provide the field names and field values in **FieldDetails** section.

For Form Types that are same across multiple databases, you can now specify the database name as part of the optional parameters in map inputs, wherein the same orchestration can be used to perform outbound operations on different databases. To do this you must specify the database name in the **databaseName** optional parameter (described in the table given below). If the **databaseName** parameter is populated with a value, the outbound operation will be performed on the database specified in the **databaseName** parameter. If there is no value specified, the database name specified during configuration will be used to perform the outbound operation.

The optional input parameter is described in the following table:

Table 1. Database name optional parameter

Parameter Name	Description
databaseName	Specifies the database name that can be dynamically added in map inputs to enable a single orchestration to perform outbound operations across multiple databases having the same Form Type.

The Domino connector also supports dynamic endpoint connection to a different Domino server. During run time, if you want to dynamically connect to a Domino server other than the one that is configured in the endpoint page, add the new optional parameters in `dominoConnectionProperties` of map inputs. The parameters of `dominoConnectionProperties` are described in the following table:

Table 2. Optional connection parameters

Parameters	Description
dominoConnectionProperties parameters	
hostName	Specifies the host name or IP address of the machine on which Domino server is running.
diiopPort	Specifies the Domino Internet Inter ORB Protocol (DIIOP) port that allows Javaâ„¢ applets or applications to access Domino data remotely using CORBA. The default value is 63148.
username	Specifies the user name to connect to the Domino server.
password	Specifies the password associated with the user name to connect to the Domino server.
connectionPool parameters	
minimumConnections	Specifies the lowest number of Domino server connections that the Integration Appliance keeps open in the connection pool. Entering 0 (zero) is supported. The default value is 5.
maximumConnections	Specifies the maximum number of Domino server connections that the Integration Appliance can keep open in the connection pool. Entering 0 (zero) means the maximum number of connections is unbounded. The default value is 25.
maxIdleTime	Specifies the amount of time in minutes that a Domino server connection can be open in an idle state before being closed by the Integration Appliance. Entering 0 (zero) means that the connections are closed when they are returned to the pool â€”no idle time. The default value is 120 minutes.
maxWait	Specifies the amount of time in seconds that the Integration Appliance waits for a connection when all the connections in the pool are exhausted. If no connection is obtained after the wait time, an exception is thrown. The default value is 300 seconds.
reclaimConnections	Specifies the interval at which the connector checks for idle connections. Idle connections are reclaimed until the minimum number of connections is reached, as specified in the Minimum Connections parameter. The default value is 5 minute.

## Specifying the map outputs create activity

- Click **Map output** from the **Checklist** pane.

The output parameters for the Domino activity are displayed under the **From Activity** pane.

The response of the `AdditionalFields` property is also displayed in the From Activity pane.

Some of the common output parameters are defined in the following table.

Parameter Name	Description
UniversalID	A UniversalID of a document is a read/write property that uniquely identifies a document across all replicas of a database. In character format, the UniversalID is a 32-character combination of hexadecimal digits (0-9, A-F). The UniversalID is also known as the uniqueID or UNID. The datatype is string.

Note sID	A NotesID of a document is a read only property and has a hexadecimal value of up to 8 characters, which uniquely identifies a document within a particular database. A note ID represents the location of a document within a specific database file. So the documents that are replicas of one another generally have different note IDs. A note ID does not change, unless the document is deleted.
Form	A form provides the structure for creating and displaying documents, which are the design elements that store data in the database. When you enter the information in a form and save it, the information is saved as a document. When you open the document, the document uses the form as a template to provide the structure for displaying the data. Note: Changing a form (for example, by adding a field) does not change documents previously created with that form until they are modified and saved, either manually or automatically by an agent. Removing a field from a form does not remove the value of that field from previously created documents.
ParentDo cume ntUN ID	A parentdocumentUNID of a document is a read-only property. It is defined as the universal ID of a document's parent, if the document is a response document. If a document does not have a parent, it returns an empty string (""). The datatype is string.

Note: You can map the output parameters of the activity based on requirement.

## Summary flag (field flag) behavior

When a document is created for a form containing fields of type Authors, Readers, or Names; and data is set for these fields in the Map Input, the summary flag is set with proper permissions based on the Domino field type. This feature is supported from Domino server version 8.5.3 onwards.

For example:

1. If a Domino field of type Authors is set with a value CN=SYSTEM/O=IBM, the summary flag will be **SUMMARY READ/WRITE-ACCESS NAMES "CN=SYSTEM/O=IBM"**.
2. If a Domino field of type Readers is set with a value CN=SYSTEM/O=IBM, the summary flag will be **SUMMARY READ-ACCESS NAMES "CN=SYSTEM/O=IBM"**.
3. If a Domino field of type Names is set with a value CN=SYSTEM/O=IBM, the summary flag will be **SUMMARY NAMES "CN=SYSTEM/O=IBM"**.

**Parent topic:** [Domino Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Domino\\_create\\_outactivity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Domino_create_outactivity.html)

## Updating a Domino document

Use the Update Document activity to update a document in the Domino® database. Each updated document must be uniquely identifiable by its UniversalID or NotesID.

### Using the update activity

1. Right-click **Orchestration** in the **Project** pane and click **New Orchestration** to create or open an orchestration. The orchestration pane is displayed.
2. Select the **Activities** tab and expand the **Domino** folder.
3. Drag **Update Activity** from the **Domino** folder onto the orchestration. The graphical representation of the orchestration, along with the Checklist pane is displayed.
4. The **Checklist** pane lists the tasks (**Summary**, **Pick Endpoint**, **Configure**, **Map Inputs**, **Map Outputs**) that you must complete to configure an outbound activity.
5. Click **Pick Endpoint**, and then select a Domino endpoint.

For instructions on creating or editing a Domino endpoint, see [Creating or editing an endpoint for a Domino activity](#)

- Click Configure from the Checklist. The Configure pane is displayed.
  - Click Browse to select an existing database from the Browse Domino databases pane. The Browse Domino databases display all the databases for the selected endpoint.
  - Click Next to select an existing form from the Browse Domino Forms pane. The Browse Domino Forms displays all the forms present in the selected database of the Domino server.

Note: The Next button is enabled only after you select the database name.

## Specifying the map inputs for update activity

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The input parameters for update activity are either UniversalID or NotesID and all the business data fields (specific to the selected form) must be updated.

- Click **Map Input** from the **Checklist** pane.

The input parameters for the specific Domino activity are displayed under the **To Activity** pane. The input parameters are defined in the following table.

Parameter Name	Description
UniversalID	A UniversalID of a document is a read/write property that uniquely identifies a document across all replicas of a database. In character format, a UniversalID is a 32-character combination of hexadecimal digits (0-9, A-F). A UniversalID is also known as the unique ID or UNID. The data type is string.
NotesID	A NotesID of a document is a read only property and has a hexadecimal value of up to 8 characters, which uniquely identifies a document within a particular database. A NotesID represents the location of a document within a specific database file. So the documents that are replicas of one another generally have different note IDs. A NotesID does not change, unless the document is deleted.

Note: You *must* map the input parameters of the activity.

Note: To populate dynamically added fields of the Domino document, which are not part of the map inputs structure, use the `AdditionalFields` property and provide the field names and field values in `FieldDetails` section.

For Form Types that are same across multiple databases, you can now specify the database name as part of the optional parameters in map inputs, wherein the same orchestration can be used to perform outbound operations on different databases. To do this, you must specify the database name in the `databaseName` optional parameter (described in Table 1). If the `databaseName` parameter is populated with a value, the outbound operation is performed on the database specified in the `databaseName` parameter. If there is no value specified, the database name that is specified during configuration is used to perform the outbound operation.

## Optional parameters for a Domino activity

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The following are the optional parameters that are defined for update activity.

Table 1. Optional parameters

Parameter Name	Description
MarkAsRead	Specifies if the document is to be marked as read during an update operation. It is of type Boolean.
MakeResponse	Specifies if the document is to be made available as the response of the saved document even if another user modifies and saves the document. It is of type Boolean.
ForceSave	Specifies if the document is to be force saved during a conflict of an update operation. It is of type Boolean.
databaseName	<code>databaseName</code> is the name of the database in which the document is updated. If a value is set for this parameter, then the value of the database in the configure panel is overwritten. This parameter is useful when documents with the same structure (Form) must be updated in multiple databases, using the same orchestration.

The Domino connector also supports dynamic endpoint connection to a different Domino server. During run time, if you want to dynamically connect to a Domino server other than the one that is configured in the endpoint page, add the new optional parameters

in dominoConnectionProperties of map inputs. The parameters for dominoConnectionProperties are described in the following table:

Table 2. Optional connection parameters

Parameters	Description
dominoConnectionProperties parameters	
hostName	Specifies the host name or IP address of the machine on which Domino server is running.
diiopPort	Specifies the Domino Internet Inter-ORB Protocol (DIIOP) port that allows Javaâ„¢ applets or applications to access Domino data remotely using CORBA. The default value is 63148.
username	Specifies the user name to connect to the Domino server.
password	Specifies the password that is associated with the user name to connect to the Domino server.
connectionPool parameters	
minimumConnections	Specifies the lowest number of Domino server connections that the Integration Appliance keeps open in the connection pool. Entering 0 (zero) is supported. The default value is 5.
maximumConnections	Specifies the maximum number of Domino server connections that the Integration Appliance can keep open in the connection pool. Entering 0 (zero) means the maximum number of connections is unbounded. The default value is 25.
maxIdleTime	Specifies the amount of time in minutes that a Domino server connection can be open in an idle state before being closed by the Integration Appliance. Entering 0 (zero) means that the connections are closed when they are returned to the pool â€”no idle time. The default value is 120 minutes.
maxWait	Specifies the amount of time in seconds that the Integration Appliance waits for a connection when all the connections in the pool are exhausted. If no connection is obtained after the wait time, an exception is thrown. The default value is 300 seconds.
reclaimConnections	Specifies the interval at which the connector checks for idle connections. Idle connections are reclaimed until the minimum number of connections is reached, as specified in the Minimum Connections parameter. The default value is 5 minute.

## Specifying the map outputs for a Domino activity

- Click **Map output** from the **Checklist** pane.

The output parameters for the Domino activity are displayed under the **From Activity** pane.

Note: You can map the output parameters of the activity that is based on your requirement.

## Summary flag (field flag) behavior

When a document is updated for a form containing fields of type Authors, Readers, or Names; and data is set for these fields in the Map Input, the summary flag is set with proper permissions based on the Domino field type. This feature is supported from Domino server version 8.5.3 onwards.

For example:

- If a Domino field of type `Authors` is set with a value `CN=SYSTEM/O=IBM`, the summary flag will be `SUMMARY READ/WRITE-ACCESS NAMES "CN=SYSTEM/O=IBM"`.
- If a Domino field of type `Readers` is set with a value `CN=SYSTEM/O=IBM`, the summary flag will be `SUMMARY READ-ACCESS NAMES "CN=SYSTEM/O=IBM"`.
- If a Domino field of type `Names` is set with a value `CN=SYSTEM/O=IBM`, the summary flag will be `SUMMARY NAMES "CN=SYSTEM/O=IBM"`.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Domino\\_update\\_outactivity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Domino_update_outactivity.html)

## Retrieving a Domino document

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Using the Retrieve Activity, you can retrieve a document from a Domino® database. Each retrieved document is uniquely identified by its UniversalID or NotesID. The retrieval is done based on the input, that is, either the UniversalID or the NotesID.

### Using the retrieve activity

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1. Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.
2. Select the Activities tab and expand the Domino folder.
3. Drag Retrieve Activity from the Domino folder onto the orchestration. A graphical representation of the orchestration along with the **Checklist** is displayed.
4. The Checklist pane lists the tasks(Summary, Pick Endpoint, Configure, Map inputs, Map outputs) that you must perform to complete the configuration of the outbound activity.
5. Click Pick Endpoint, and then select a Domino endpoint.

For instructions on creating or editing a Domino endpoint, see [Creating or editing an endpoint for a Domino activity](#).

6. Click Configure from the Checklist. The Configure pane is displayed.
  - o Click Browse to select an existing database from the Browse Domino databases pane. The Browse Domino databases display all the databases for the selected endpoint.
  - o Click Next to select an existing form from the Browse Domino Forms pane. The Browse Domino Forms displays all the forms present in the selected database of the Domino server.  
Note: The Next button is enabled only after you select the database name.
  - o Fields with canonical names accept fields that may have canonical names such as John Smith/IBM/COUNTRY as values, which are separated by commas. Specify the canonical names in this field if you want to convert the values in these fields to internet mail addresses, such as johnsmith@country.ibm.com. Some of the field name examples are To, From, CC, Chair, Required Attendees, and so on.

### Specifying the map inputs for the retrieve activity

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The input parameter for Retrieve activity is either UniversalID or NotesID. When both are given, UniversalID is used to retrieve the Domino document.

1. Click Map Input from the Checklist pane.

The input parameters for the specific Domino activity are displayed under the To Activity pane. Some of the common input parameters are defined in the following table.

Parameter Name	Description
UniversalID	The UniversalID parameter is a read/write property that uniquely identifies a document across all replicas of a database. In character format, the unique ID parameter is a 32-character combination of hexadecimal digits (0-9, A-F). The UniversalID is also known as the unique ID or UNID. The data type is string.
NotesID	The Notes® ID of a document is a read only property and has a hexadecimal value of up to 8 characters, which uniquely identifies a document within a particular database. The Notes ID represents the location of a document within a specific database file. So the documents that are replicas of one another generally have different Notes IDs. A Notes ID does not change, unless the document is deleted.

Note: You *must* map the input parameters of the activity.

For Form Types that are same across multiple databases, you can now specify the database name as part of the optional parameters in map inputs, wherein the same orchestration can be used to perform outbound operations on different databases. To do this, you must specify the database name in the `databaseName` optional parameter (described in Table 1). If the `databaseName` parameter is populated with a value, the outbound operation is performed on the database specified in the `databaseName` parameter. If there is no value specified, the database name that is specified during configuration is used to perform the outbound operation.

#### Optional parameters

The optional input parameter is described in the following table:

Table 1. Optional parameters

Parameter name	Description
databaseName	databaseName is the name of the database from which the document is retrieved. If a value is set for this parameter, then the value of the database in the configure panel is overwritten. This parameter is useful when documents with the same structure (Form) must be retrieved from multiple databases, using the same orchestration.

The Domino connector also supports dynamic endpoint connection to a different Domino server. During run time, if you want to dynamically connect to a Domino server other than the one that is configured in the endpoint page, add the new optional parameters in `dominoConnectionProperties` of map inputs. The parameters of `dominoConnectionProperties` are described in the following table:

Table 2. Optional connection parameters

Parameters	Description
dominoConnectionProperties parameters	
hostName	Specifies the host name or IP address of the machine on which Domino server is running.
diiopPort	Specifies the Domino Internet Inter-ORB Protocol (DIIOP) port that allows Java® applets or applications to access Domino data remotely using CORBA. The default value is 63148.
username	Specifies the user name to connect to the Domino server.
password	Specifies the password that is associated with the user name to connect to the Domino server.
connectionPool parameters	
minimumConnections	Specifies the lowest number of Domino server connections that the Integration Appliance keeps open in the connection pool. Entering 0 (zero) is supported. The default value is 5.
maximumConnections	Specifies the maximum number of Domino server connections that the Integration Appliance can keep open in the connection pool. Entering 0 (zero) means the maximum number of connections is unbounded. The default value is 25.
maxIdleTime	Specifies the amount of time in minutes that a Domino server connection can be open in an idle state before being closed by the Integration Appliance. Entering 0 (zero) means that the connections are closed when they are returned to the pool –no idle time. The default value is 120 minutes.
maxWait	Specifies the amount of time in seconds that the Integration Appliance waits for a connection when all the connections in the pool are exhausted. If no connection is obtained after the wait time, an exception is thrown. The default value is 300 seconds.
reclaimConnections	Specifies the interval at which the connector checks for idle connections. Idle connections are reclaimed until the minimum number of connections is reached, as specified in the Minimum Connections parameter. The default value is 5 minute.

## Specifying the map outputs for the retrieve activity

1. Click Map output from the Checklist pane.

The output parameters for the Domino activity are displayed under the From Activity pane.

Note: You can map the output parameters of the activity that is based on your requirement.

Note: Dynamically added fields present in the Domino document and not generated in the map input/output structures are handled by the Domino connector. While retrieving documents using this activity, the data for these fields are available in the map outputs section under `AdditionalFields`.

**Parent topic:** [Domino Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Domino\\_retrieve\\_outactivity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Domino_retrieve_outactivity.html)

## Querying Domino documents

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The Query Document activity is used to query documents from the database in the Lotus® Domino® server that matches the values that are specified in the document fields.

You can specify one or more of the following criteria in the input data that is sent with the outbound request.

- Document business data: When you specify the document business data in the Map Input section, the connector reads all the valid data from the map input. The connector searches the database for documents that match these valid data. All the matching documents that can be represented using the map output schema are returned as a response.
- `ParentDocumentUNID`: When you specify a valid `ParentDocumentUNID` in the Map Input section, the connector queries all the child documents to this parent document. All the matching documents, which can be represented using the map output schema are returned as a response.
- No data set: When you do not provide a data in the map input, the connector queries the documents that can be represented using the map output schema.

You can search for documents based on two types of search methods:

1. **Database Search method:** Given selection criteria for a document, returns all documents in a database that meet the criteria. By default, the activity uses the Database Search method to search for documents. To explicitly set the search to this type, set the value of `searchType` optional parameter to `NORMAL_SEARCH` in the map input section. This method supports the search of documents that are based on the following types of search criteria:
  - a. **Single values:** You can specify a single value in the search criteria. For example, the connector can query documents that are based on the single word, number, or date that is specified in the search field. You can find more information about the search values that can be specified in the Number and Date type fields in the following points.
    - **Numbers:** You can specify a double digit number or an integer value as the search criteria in the Numbers type field. You can use this search function to query documents where a Number type field equals to a certain value. For example, to query documents where employee salary equals to 1234 . 56, enter the value 1234 . 56 in the `EmployeeSalary` field.
    - **Date:** You can specify a date as the search criteria in any Date type field. For example, to query documents where birthday equals to 1982/11/22, specify the value 1982/11/22 in the `Birthday` field.
  - b. **Multiple values:** You can specify multiple values as the search criteria for any Lotus® Domino® field types. This feature can be used to find the documents with the specified values at run time. For example, you can configure the connector to retrieve documents that match the words that are specified in the search criteria.
  - c. **Text search for rich text contents:** You can specify the texts to search documents that have rich text contents at run time. The connector conducts a search by using the texts that are specified in the `RichText` field and all matching documents are retrieved by the connector. The connector supports both single and multiple text content searches for the `RichText` field. You can also provide wildcard suffixes, such as \* for searching documents in the `RichText` field.
  - d. **Search using multiple fields:** You can specify search values in more than one field. In this configuration, the activity uses the logical AND operator to group the search strings. For instance, you can specify a single value, multiple values, `RichText`, or `ParentDocumentUNID` in different fields. The activity returns only the search content that matches all the specified criteria.
2. **Database FTSearch/Indexed Search method:** Conducts a full text search of all the documents in a database. When the database is fully indexed, the indexed search method is faster compared to the Database Search method. The method sorts the output data by relevance score. When the collection is sorted by relevance, the highest relevance appears first. To explicitly set the search to this type, set the value of `searchType` optional parameter to `FULL_TEXT_SEARCH` in the map input section.

a. **Search using multiple fields:** The indexed search method also supports search using multiple fields. You can specify the search values in more than one field. In this configuration, the connector uses the logical AND operator to group the search strings. For instance, you can specify a single value, multiple values, or `ParentDocumentUNID` in different fields. The connector returns a logical AND operation of all the specified search criteria, returning exact and close matches for string type fields and exact matches for numeric type fields.

Note: The indexed search method does not work for `RichText`, `Attachments`, and `Date` fields.

## Using the Query Document activity

1. Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.
2. Select the Activities tab and expand the Domino folder.
3. Drag Query Activity from the Domino folder onto the orchestration. A graphical representation of the orchestration along with the **Checklist** is displayed.
4. Click Pick Endpoint, and then select a Domino endpoint.

For instructions on creating or editing a Domino endpoint, see [Creating or editing an endpoint for a Domino activity](#).

5. Click Configure from the Checklist. The Configure pane is displayed.
  - o Click Browse to select an existing database from the **Browse Domino database** pane. The Browse Domino databases display all the databases for the selected endpoint.
  - o Click Next to select an existing form from the **Browse Domino Forms** pane. The Browse Domino Forms displays all the forms present in the selected database of the Domino server.  
Note: The Next button is enabled only after you have selected the database name.
  - o Fields with canonical names accept fields that may have canonical names such as `John Smith/IBM/COUNTRY` as values, which are separated by commas. Specify the canonical names in this field if you want to convert the values in these fields to internet mail addresses, such as `johnsmith@country.ibm.com`. Some of the field name examples are To, From, CC, Chair, Required Attendees, and so on.
6. Select the Map Inputs in the Checklist. The XML schemas generated from the selected object of the Query Documents activity are displayed as nodes under the request input parameter in the To Activity panel.

For Form Types that are same across multiple databases, you can specify the database name as part of the optional parameters in map inputs, wherein the same orchestration can be used to perform outbound operations on different databases. To do this, you must specify the database name in the `databaseName` optional parameter (described in Table 1). If the `databaseName` parameter is populated with a value, the outbound operation is performed on the database specified in the `databaseName` parameter. If there is no value specified, the database name that is specified during configuration is used to perform the outbound operation.

The optional input parameter is described in the following table:

Table 1. Optional input parameter

Parameter name	Description
<code>databaseName</code>	<code>databaseName</code> is the name of the database from which the document is queried. If a value is set for this parameter, then the value of the database given in the configure panel will be overwritten. This parameter is useful when documents with the same structure (Form) need to be queried from multiple databases, using the same orchestration.

The Domino connector also supports dynamic endpoint connection to a different Domino server. During run time, if you want to dynamically connect to a Domino server other than the one that is configured in the endpoint page, add the new optional parameters in `dominoConnectionProperties` of map inputs. The parameters of `dominoConnectionProperties` are described in the following table:

Table 2. Optional connection parameters

Parameters	Description
dominoConnectionProperties parameters	
<code>hostName</code>	Specifies the host name or IP address of the machine on which Domino server is running.
<code>diiopPort</code>	Specifies the Domino Internet Inter-ORB Protocol (DIIOP) port that allows Java® applets or applications to access Domino data remotely using CORBA. The default value is 63148.

Parameters	Description
username	Specifies the user name to connect to the Domino server.
connectionPool parameters	
minimumConnections	Specifies the lowest number of Domino server connections that the Integration Appliance keeps open in the connection pool. Entering 0 (zero) is supported. The default value is 5.
maximumConnections	Specifies the maximum number of Domino server connections that the Integration Appliance can keep open in the connection pool. Entering 0 (zero) means the maximum number of connections is unbounded. The default value is 25.
maxIdleTime	Specifies the amount of time in minutes that a Domino server connection can be open in an idle state before being closed by the Integration Appliance. Entering 0 (zero) means that the connections are closed when they are returned to the pool â€“no idle time. The default value is 120 minutes.
maxWait	Specifies the amount of time in seconds that the Integration Appliance waits for a connection when all the connections in the pool are exhausted. If no connection is obtained after the wait time, an exception is thrown. The default value is 300 seconds.
reclaimConnections	Specifies the interval at which the connector checks for idle connections. Idle connections are reclaimed until the minimum number of connections is reached, as specified in the Minimum Connections parameter. The default value is 5 minute.
password	Specifies the password that is associated with the user name to connect to the Domino server.

7. Create a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

8. Select the search type to be used for the activity:

Table 3. Search type

Parameter Name	Description
searchType	Specifies the search type to be used for this activity. The values are: <ul style="list-style-type: none"> <li>◦ NORMAL_SEARCH: Uses Domino Database Search method.</li> <li>◦ FULL_TEXT_SEARCH: Uses Domino Database FTSearch method.</li> </ul> When no value is specified NORMAL_SEARCH is used.

9. Select the Map Outputs in the checklist. The XML schemas generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.

Note: Dynamically added fields present in the Domino document and not generated in the map input/output structures are handled by the Domino connector. While retrieving documents using this activity, the data for these fields are available in the map outputs section under AdditionalFields.

`queryUsingTimestamp` is the parameter that is used to query documents that are based on time stamps. The `timestamp` property is a recursive property. You can define `groupFields`, `name`, `operator`, and `value` under the `timestamp` property.

The optional output parameters are described in the following table:

Parameter Name	Description	
queryUsingTimestamp	The following are the <code>timestamp</code> properties: Table 4. <code>timestamp</code> properties	
Property	Values	
groupFields	You can specify multiple values such as: AND, OR, (,), AND (, OR (, ) AND, ) OR, ) AND (, and ) OR (. Note: You can have multiple conditions. <code>groupFields</code> must be used when you have multiple conditions.	
name	Specify one of these values: <code>createdTimestamp</code> or <code>lastModifiedTimestamp</code>	

Property	Values
operator or	Specify one of these values: GREATER_THAN, GREATER_THAN_OR_EQUAL_TO, EQUAL_TO, LESS_THAN, LESS_THAN_OR_EQUAL_TO, and NOT_EQUAL_TO
value	Specify the date and time values. For example, 26-09-2013 12:05:00 PM EST. Note: If you do not mention the timezone, by default, the timezone of the server is considered.

Note:

- o Querying documents that are based on the NOT\_EQUAL\_TO operator (!=) is not supported in Full Text Search.
- o Querying documents using time is not supported in Full Text Search. For example, [\_RevisionDate] = 05/06/2013 09:30:00.
- o Querying documents using the EQUAL\_TO operator with timestamp does not work with the Normal Search type. For example, @Modified = [05/06/2013 09:14:22].
- o Querying documents using Full Text Search as the Search Type, you can query documents that are only based on Date; and not DateTime. For example, lastModfiedDateTime >= 05/20/2013 20:00:00 is not supported in Full Text Search.

10. Create a map between the output parameters and orchestration variables.

You have configured the Domino Query Documents activity.

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## Querying views for Domino documents

The Query Views activity is used to query views from the database in the Lotus® Domino® server that matches the values that are specified in the document fields that are present in the view.

### Using the Query Document activity

1. Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.
2. Select the Activities tab and expand the Domino folder.
3. Drag Query Views from the Domino® folder onto the orchestration. A graphical representation of the orchestration along with the **Checklist** is displayed.
4. Click Pick Endpoint, and then select a Domino endpoint.

For instructions on creating or editing a Domino endpoint, see [Creating or editing an endpoint for a Domino activity](#).

5. Click Configure from the Checklist. The Configure pane is displayed.

Note: The Next button is enabled only after you have selected the database name.

- o Click Browse to select an existing database from the **Browse Domino Database** pane. The Browse Domino databases display all the databases for the selected endpoint.
- o Click Browse to select an existing view from the **Browse Domino Views** pane. The Browse Domino Views display all the views for the selected endpoint and in the selected database.
- o Click Next to select an existing form from the **Browse Domino Forms** pane. The Browse Domino Forms displays all the forms related to the documents in that view.

6. Select the Map Inputs in the Checklist. The XML schemas generated from the selected object of the Query Views activity are displayed as nodes under the request input parameter in the To Activity panel.

For Form Types that are same across multiple databases, you can specify the database name as part of the optional parameters in map inputs, wherein the same orchestration can be used to perform outbound operations on different databases. To do this, you must specify the database name in the `databaseName` optional parameter (described in Table 1). If

the `databaseName` parameter is populated with a value, the outbound operation is performed on the database that is specified in the `databaseName` parameter. If there is no value specified, the database name that is specified during configuration is used to perform the outbound operation.

The optional input parameter is described in the following table:

Table 1. Database name optional parameter

Parameter Name	Description
<code>databaseName</code>	Specifies the database name that can be dynamically added in map inputs to enable a single orchestration to perform outbound operations across multiple databases that have the same Form Type.

The Domino connector also supports dynamic endpoint connection to a different Domino server. During run time, if you want to dynamically connect to a Domino server other than the one that is configured in the endpoint panel, add the new optional parameters in `dominoConnectionProperties` of map inputs. The parameters for `dominoConnectionProperties` are described in the following table:

Table 2. Optional connection parameters

Parameters	Description
dominoConnectionProperties parameters	
<code>hostName</code>	Specifies the host name or IP address of the machine on which the Domino server is running.
<code>diiopPort</code>	Specifies the Domino Internet Inter-ORB Protocol (DIIOP) port that allows Javaâ„¢ applets or applications to access Domino data remotely using CORBA. The default value is 63148.
<code>username</code>	Specifies the user name to connect to the Domino server.
<code>password</code>	Specifies the password that is associated with the user name to connect to the Domino server.
connectionPool parameters	
<code>minimumConnections</code>	Specifies the lowest number of Domino server connections that the Integration Appliance keeps open in the connection pool. Entering 0 (zero) is supported. The default value is 5.
<code>maximumConnections</code>	Specifies the maximum number of Domino server connections that the Integration Appliance can keep open in the connection pool. Entering 0 (zero) means the maximum number of connections is unbounded. The default value is 25.
<code>maxIdleTime</code>	Specifies the amount of time in minutes that a Domino server connection can be open in an idle state before being closed by the Integration Appliance. Entering 0 (zero) means that the connections are closed when they are returned to the pool â€”no idle time. The default value is 120 minutes.
<code>maxWait</code>	Specifies the amount of time in seconds that the Integration Appliance waits for a connection when all the connections in the pool are exhausted. If no connection is obtained after the wait time, an exception is thrown. The default value is 300 seconds.
<code>reclaimConnections</code>	Specifies the interval at which the connector checks for idle connections. Idle connections are reclaimed until the minimum number of connections is reached, as specified in the Minimum Connections parameter. The default value is 5 minute.

- Map the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

- Specify the values as described in Table 3:

Table 3. Search type

Parameter Name	Description
<code>KeyValues</code>	Specify the value for which you want to run a search.

Parameter Name	Description
ExactMatch	Specify the value as <code>False</code> to return all possible values related to the search term. For an exact match to be returned, specify the value as <code>True</code> .
SearchFormula	Specify a formula for a detailed search as per your requirement.

9. Select the Map Outputs in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.

Note: Dynamically added fields present in the Domino document and not generated in the map input/output structures are handled by the Domino connector. While retrieving documents using this activity, the data for these fields are available in the map outputs section under `AdditionalFields`.

10. Create a mapping between the output parameters and orchestration variables.

You have configured the Domino Query Views activity.

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## Deleting a Domino document

Use the Delete Activity to delete a document from the Domino® database. Each deleted document must be uniquely identifiable by its `UniversalID` or `NotesID`.

### Using the delete activity

- Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.
- Select the Activities tab and expand the Domino folder.
- Drag Delete Activity from the Domino folder onto the orchestration. A graphical representation of the orchestration along with the **Checklist** is displayed.
- The Checklist pane lists the tasks(Summary, Pick Endpoint, Configure, Map inputs, Map outputs) that you must perform to complete the configuration of the outbound activity.
- Click Pick Endpoint, and then select a Domino endpoint.

For instructions on creating or editing a Domino endpoint, see [Creating or editing an endpoint for a Domino activity](#).

- Click Configure from the Checklist. The Configure pane is displayed.
  - Click Browse to select an existing database from the Browse Domino databases pane. The Browse Domino databases display all the databases for the selected endpoint.
  - Click Next to select an existing form from the Browse Domino Forms pane. The Browse Domino Forms displays all the forms present in the selected database of the Domino server.

Note: The Next button is enabled only after you have selected the database name.

### Specifying the map inputs for the delete activity

- Click Map Input from the **Checklist**.

The input parameters for the specific Domino activity are displayed under the To Activity pane. Some of the common input parameters are defined in the following table.

Parameter Name	Description

Universal ID	The UniversalID parameter is a read/write property that uniquely identifies a document across all replicas of a database. In character format, the unique ID parameter is a 32-character combination of hexadecimal digits (0-9, A-F). The UniversalID is also known as the unique ID or UNID. The data type is string.
NotesID	The Notes® ID of a document is a read only property and has a hexadecimal value of up to 8 characters, which uniquely identifies a document within a particular database. The NotesID represents the location of a document within a specific database file. So the documents that are replicas of one another generally have different Notes IDs. A Notes ID does not change, unless the document is deleted.

Note: You must map the input parameters of the activity.

For Form Types that are same across multiple databases, you can now specify the database name as part of the optional parameters in map inputs, wherein the same orchestration can be used to perform outbound operations on different databases. To do this, you must specify the database name in the `databaseName` optional parameter (described in Table 1). If the `databaseName` parameter is populated with a value, the outbound operation is performed on the database specified in the `databaseName` parameter. If there is no value specified, the database name that is specified during configuration is used to perform the outbound operation.

### Optional parameters

The optional input parameters are described in the following table:

Table 1.

Input Parameters	Description
<code>forceDelete</code>	This property specifies if the document is to be deleted during a conflict of delete operation. It is of type boolean.
<code>databaseName</code>	<code>databaseName</code> is the name of the database from which the document is deleted. If a value is set for this parameter, then the value of the database given in the configure panel will be overwritten. This parameter is useful when documents with the same structure (Form) need to be deleted from multiple databases, using the same orchestration.

The Domino connector also supports dynamic endpoint connection to a different Domino server. During run time, if you want to dynamically connect to a Domino server other than the one that is configured in the endpoint page, add the new optional parameters in `dominoConnectionProperties` of map inputs. The parameters of `dominoConnectionProperties` are described in the following table:

Table 2. Optional connection parameters

Parameters	Description
dominoConnectionProperties parameters	
<code>hostName</code>	Specifies the host name or IP address of the machine on which Domino server is running.
<code>diiopPort</code>	Specifies the Domino Internet Inter-ORB Protocol (DIIOP) port that allows Java™ applets or applications to access Domino data remotely using CORBA. The default value is 63148.
<code>username</code>	Specifies the user name to connect to the Domino server.
<code>password</code>	Specifies the password that is associated with the user name to connect to the Domino server.
connectionPool parameters	
<code>minimumConnections</code>	Specifies the lowest number of Domino server connections that the Integration Appliance keeps open in the connection pool. Entering 0 (zero) is supported. The default value is 5.
<code>maximumConnections</code>	Specifies the maximum number of Domino server connections that the Integration Appliance can keep open in the connection pool. Entering 0 (zero) means the maximum number of connections is unbounded. The default value is 25.
<code>maxIdleTime</code>	Specifies the amount of time in minutes that a Domino server connection can be open in an idle state before being closed by the Integration Appliance. Entering 0 (zero) means that the connections are closed when they are returned to the pool —no idle time. The default value is 120 minutes.

Parameters	Description
maxWait	Specifies the amount of time in seconds that the Integration Appliance waits for a connection when all the connections in the pool are exhausted. If no connection is obtained after the wait time, an exception is thrown. The default value is 300 seconds.
reclaimConnections	Specifies the interval at which the connector checks for idle connections. Idle connections are reclaimed until the minimum number of connections is reached, as specified in the Minimum Connections parameter. The default value is 5 minute.

## Specifying the map outputs for the delete activity

1. Click Map output from the Checklist.

The output parameters for the Domino activity are displayed under the From Activity pane.

Note: You can map the output parameters of the activity that is based on your requirement.

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## Getting events from Domino server

The Get Events activity is used to get events from the database in the IBM® Domino® server that matches the values that are specified in the input fields of Map Inputs.

### Using the Get Events activity

1. Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.
2. Select the Activities tab and expand the Domino folder.
3. Drag Get Events from the Domino® folder onto the orchestration. A graphical representation of the orchestration along with the **Checklist** is displayed.
4. Click Pick Endpoint, and then select a Domino endpoint.

For instructions on creating or editing a Domino endpoint, see [Creating or editing an endpoint for a Domino activity](#).

5. Click Configure from the Checklist. The Configure pane is displayed.
  - o Click the Request Response Format list to select the XML, JSON, or iCAL format.
  - o Click Browse to select an existing database from the **Browse Domino Database** pane. The Browse Domino databases display all the databases for the selected endpoint.
6. Select the Map Inputs in the Checklist. The XML schemas generated from the selected object of the Get Events activity are displayed as nodes under the request input parameter in the To Activity panel.

Table 1. Map Input Parameters

Parameter	Description
since	Retrieves all the events from the timestamp mentioned in this field. For example, 2014-09-17T07:00:00Z
before	Retrieves all the events from the timestamp mentioned in this field. For example, 2014-09-17T07:00:00Z. The before parameter is always used with the since parameter.
id	Accepts a event ID as the input and returns the details of that event. For example, 0941088CD074C75065257CA8001AB24C-Lotus_Auto_Generated.
AllEvents	Accepts True values and return all the events in that database.

7. Map the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
8. Select the Map Outputs in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
9. Create a mapping between the output parameters and orchestration variables.

You have configured the Domino Get Events activity.

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## Getting invitations from Domino server

The Get Invitations activity is used to get invitations from the database in the IBM Domino® server that matches the values that are specified in the input fields of Map Inputs.

### Using the Get Invitations activity

1. Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.
  2. Select the Activities tab and expand the Domino folder.
  3. Drag Get Invitations from the Domino® folder onto the orchestration. A graphical representation of the orchestration along with the **Checklist** is displayed.
  4. Click Pick Endpoint, and then select a Domino endpoint.
- For instructions on creating or editing a Domino endpoint, see [Creating or editing an endpoint for a Domino activity](#).
5. Click Configure from the Checklist. The Configure pane is displayed.
    - o Click the Request Response Format list to select the XML, JSON, or iCAL format.
    - o Click Browse to select an existing database from the **Browse Domino Database** pane. The Browse Domino databases display all the databases for the selected endpoint.
  6. Select the Map Inputs in the Checklist. The XML schemas generated from the selected object of the Get Invitations activity are displayed as nodes under the request input parameter in the To Activity panel.

Table 1. Map Input Parameters

Parameter	Description
since	Retrieves all the invitations from the timestamp mentioned in this field. For example, 2014-09-17T07:00:00Z
before	Retrieves all the invitations from the timestamp mentioned in this field. For example, 2014-09-17T07:00:00Z. The before parameter is always used with the since parameter.
id	Accepts an event ID as the input and returns the details of that invitation. For example, 0941088CD074C75065257CA8001AB24C-Lotus_Auto_Generated.
AllEvents	Accepts True as the value and return all the invitations in that database.

7. Map the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
8. Select the Map Outputs in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.

9. Create a mapping between the output parameters and orchestration variables.

You have configured the Domino Get Invitations activity.

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## Getting notices from Domino server

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The Get Notices activity is used to get notices from the database in the IBM Domino® server that matches the values that are specified in the input fields of Map Inputs.

### Using the Get Notices activity

1. Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.
  2. Select the Activities tab and expand the Domino folder.
  3. Drag Get Notices from the Domino® folder onto the orchestration. A graphical representation of the orchestration along with the **Checklist** is displayed.
  4. Click Pick Endpoint, and then select a Domino endpoint.
- For instructions on creating or editing a Domino endpoint, see [Creating or editing an endpoint for a Domino activity](#).
5. Click Configure from the Checklist. The Configure pane is displayed.
    - o Click the Request Response Format list to select the XML, JSON, or ICAL format.
    - o Click Browse to select an existing database from the **Browse Domino Database** pane. The Browse Domino databases display all the databases for the selected endpoint.
  6. Select the Map Inputs in the Checklist. The XML schemas generated from the selected object of the Get Notices activity are displayed as nodes under the request input parameter in the To Activity panel.

Table 1. Map Input Parameters

Parameter	Description
since	Retrieves all the notices from the timestamp mentioned in this field. For example, 2014-09-17T07:00:00Z
before	Retrieves all the notices from the timestamp mentioned in this field. For example, 2014-09-17T07:00:00Z. The before parameter is always used with the since parameter.
id	Accepts an event ID as the input and returns the details of that notice. For example, 0941088CD074C75065257CA8001AB24C-Lotus_Auto_Generated.
AllEvents	Accepts True as the values and return all the notices in that database.

7. Map the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

8. Select the Map Outputs in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
9. Create a mapping between the output parameters and orchestration variables.

You have configured the Domino Get Notices activity.

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## Processing calendar events in Domino server

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The Process Calendar Events activity is used to process an action on an existing calendar event in a database in the IBM Domino® server that matches the values that are specified in the input fields that are present in the Map Inputs.

### Using the Process Calendar Events activity

1. Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.
2. Select the Activities tab and expand the Domino folder.
3. Drag Process Calendar Events from the Domino® folder onto the orchestration. A graphical representation of the orchestration along with the **Checklist** is displayed.
4. Click Pick Endpoint, and then select a Domino endpoint.

For instructions on creating or editing a Domino endpoint, see [Creating or editing an endpoint for a Domino activity](#).

5. Click Configure from the Checklist. The Configure pane is displayed.
  - Click the Request Response Format list to select the XML, JSON, or iCAL format.
  - Click Browse to select an existing database from the **Browse Domino Database** pane. The Browse Domino databases display all the databases for the selected endpoint.
6. Select the Map Inputs in the Checklist. The XML schemas generated from the selected object of the Process Calendar Events activity are displayed as nodes under the request input parameter in the To Activity panel.

The input parameters are described in the following table:

Table 1. Input parameters

Parameter Name	Description
UNID	Indicates the event ID that will be used to process the calendar events.
process Action	Accepts values such as Accept, Tentative, Decline, Counter, Delegate, Delete, and Request-Info. You can select these values from the drop-down list of the ProcessAction field of Map Inputs.

7. Map the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
8. Select the Map Outputs in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
9. Create a mapping between the output parameters and orchestration variables.

You have configured the Domino Process Calendar Events activity.

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# Processing calendar notices in Domino server

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The Process Calendar Notices activity is used to process an action on an existing calendar Notice in a database of the IBM Domino® server that matches the values that are specified in the input fields present in Map Inputs.

## Using the Process Calendar Notices activity

1. Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.
2. Select the Activities tab and expand the Domino folder.
3. Drag Process Calendar Notices from the Domino® folder onto the orchestration. A graphical representation of the orchestration along with the **Checklist** is displayed.
4. Click Pick Endpoint, and then select a Domino endpoint.

For instructions on creating or editing a Domino endpoint, see [Creating or editing an endpoint for a Domino activity](#).

5. Click Configure from the Checklist. The Configure pane is displayed.
  - o Click Browse to select an existing database from the **Browse Domino Database** pane. The Browse Domino databases display all the databases for the selected endpoint.
6. Select the Map Inputs in the Checklist. The XML schemas generated from the selected object of the Process Calendar Notices activity are displayed as nodes under the request input parameter in the To Activity panel.

The input parameters are described in the following table:

Table 1. Input parameters

Parameter Name	Description
UNID	Indicates the event ID that will be used to process the calendar notices.
process Action	Accepts values such as Accept, Tentative, Decline, Counter, Delegate, Delete, and Request-Info. You can select these values from the drop-down list of the ProcessAction field of Map Inputs.

7. Map the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
8. Select the Map Outputs in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
9. Create a mapping between the output parameters and orchestration variables.

You have configured the Domino Process Calendar Notices activity.

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# Creating calendar events in Domino server

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The Create Calendar Events activity is used to create the calendar events from the database in the IBM® Domino® server that matches the values that are specified in the input fields of Map Inputs.

## Using the Create Calendar Events activity

1. Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.
2. Select the Activities tab and expand the Domino folder.

3. Drag Create Calendar Events from the Domino® folder onto the orchestration. A graphical representation of the orchestration along with the **Checklist** is displayed.
  4. Click Pick Endpoint, and then select a Domino endpoint.
- For instructions on creating or editing a Domino endpoint, see [Creating or editing an endpoint for a Domino activity](#).
5. Click Configure from the Checklist. The Configure pane is displayed.
    - o Click the Event Type list to select one of the following type of event to be created:
      - Meeting
      - Recursive Meeting
      - All Day Event
      - Appointment
      - Recursive Appointment
      - Reminder
    - o Click the Request Response Format list to select the XML, JSON, or iCAL format.
    - o Click Browse to select an existing database from the **Browse Domino Database** pane. The Browse Domino databases display all the databases for the selected endpoint.
  6. Select the Map Inputs in the Checklist. The XML schemas generated from the selected object of the Create Calendar Events activity are displayed as nodes under the request input parameter in the To Activity panel.
  7. Map the orchestration variables and the input parameter of the activity.  
 Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
  8. Select the Map Outputs in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
  9. Create a mapping between the output parameters and orchestration variables.

You have configured the Domino Create Calendar Events activity.

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## Updating calendar events in Domino server

The Update Calendar Events activity is used to update the calendar events from the database in the IBM Domino® server that matches the values that are specified in the input fields of Map Inputs.

### Using the Update Calendar Events activity

1. Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.
2. Select the Activities tab and expand the Domino folder.
3. Drag Update Calendar Events from the Domino® folder onto the orchestration. A graphical representation of the orchestration along with the **Checklist** is displayed.
4. Click Pick Endpoint, and then select a Domino endpoint.

For instructions on creating or editing a Domino endpoint, see [Creating or editing an endpoint for a Domino activity](#).

5. Click Configure from the Checklist. The Configure pane is displayed.
  - o Click the Event Type list to select one of the following event types to be updated:
    - Meeting
    - Recursive Meeting
    - All Day Event
    - Appointment

- Recursive Appointment
  - Reminder
  - Click the Request Response Format list to select the XML, JSON, or ICAL format.
  - Click Browse to select an existing database from the **Browse Domino Database** pane. The Browse Domino databases display all the databases for the selected endpoint.
6. Select the Map Inputs in the Checklist. The XML schemas generated from the selected object of the Update Calendar Events activity are displayed as nodes under the request input parameter in the To Activity panel.
7. Map the orchestration variables and the input parameter of the activity.  
 Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
8. Select the Map Outputs in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
9. Create a mapping between the output parameters and orchestration variables.

You have configured the Domino Update Calendar Events activity.

**Parent topic:** [Domino Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Domino\\_Update\\_Calendar\\_Events\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Domino_Update_Calendar_Events_Activity.html)

## Deleting calendar events from Domino server

The Delete Calendar Events activity is used to delete calendar events from the database in the IBM Domino® server that matches the values that are specified in the input fields of Map Inputs.

### Using the Delete Calendar Events activity

1. Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.
2. Select the Activities tab and expand the Domino folder.
3. Drag Delete Calendar Events from the Domino® folder onto the orchestration. A graphical representation of the orchestration along with the **Checklist** is displayed.
4. Click Pick Endpoint, and then select a Domino endpoint.

For instructions on creating or editing a Domino endpoint, see [Creating or editing an endpoint for a Domino activity](#).

5. Click Configure from the Checklist. The Configure pane is displayed.
  - Click the Event Type list to select one of the following types:
    - Meeting
    - Recursive Meeting
    - All Day Event
    - Appointment
    - Recursive Appointment
    - Reminder
  - Click the Request Response Format list to select the XML, JSON, or ICAL format.
  - Click Browse to select an existing database from the **Browse Domino Database** pane. The Browse Domino databases display all the databases for the selected endpoint.
6. Select the Map Inputs in the Checklist. The XML schemas generated from the selected object of the Delete Calendar Events activity are displayed as nodes under the request input parameter in the To Activity panel.

Table 1. Map Input Parameter

Parameter	Description
-----------	-------------

Parameter	Description
UNID	Indicates the ID of the calendar event that must be deleted from the server.

7. Map the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

8. Select the Map Outputs in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.

9. Create a mapping between the output parameters and orchestration variables.

You have configured the Domino Delete Calendar Events activity.

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## Specifying Retry and Delivery Options for Domino activities

Specifying the Retry and Delivery parameters is one of the tasks to configure a Domino® activity configuration.

### About this task

This section contains the procedures for configuring the Domino outbound and inbound activities.

### Procedure

To specify the retry options for inbound and outbound Domino activities:

1. Select the Retry task from the Checklist. The retry pane is displayed.
2. Configure the retry options for connecting to a Domino server as described in the following table:

Table 1. Retry options

Retry Fields	Description
Wait __ second(s) between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the Domino server.

Retry Fields	Description
Try to connect ____ times before failing.	<p>Specifies the retry count – the maximum number of times the Integration Appliance attempts to establish a connection to the Domino server before issuing the following errors:</p> <ul style="list-style-type: none"> <li>o When you set this parameter to "0", Studio does not try to reconnect.</li> <li>o When you set this parameter to a value less than "0", Studio retries the connection indefinitely.</li> </ul> <p>If an orchestration that starts with an inbound Domino activity is deployed and the Integration Appliance cannot connect to the specified Domino server, the Integration Appliance logs the connection errors as warnings in the system log until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system log, resets the connection error count to zero, and continues to attempt to establish a connection to the Domino server.</p> <p>For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.</p>

**Parent topic:** [Domino Activities](#)

## Domino inbound activities

### Procedure

To specify the delivery rules options for Domino inbound activities:

1. Select the Delivery Rules task from the Checklist. The delivery rules pane is displayed.
2. Configure the delivery rules options to select the activity's behavior as described in the following table:

Table 2. Delivery Rules options

Delivery Rules Fields	Description
Polling Interval	Specifies the time interval to poll event view in Adapter for Lotus® Domino(WALD) inbound event table of the Domino server. (For example, the Get created documents activity polls for create trigger events at the specified time internal.) Time can be selected in the format days, hours, minutes, and seconds.
Fetch size	Specifies how many events the activity must retrieve from the WALD inbound event table of the Domino server in each poll cycle.
Delivery Messages	
ATMOS_T_ONC_E	A non-persistent mode in which a document is either processed once or not processed at all.
ATLEA_ST_ON_CE	A persistent mode, in which a Domino document is not lost. As a result, there are chances that the orchestration can process the document once or more than once.

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# Prerequisites to use Domino inbound activities

---

This section contains the prerequisites for configuring the Domino® inbound activities:

## Configuring the Domino server

---

1. Copy the native library mentioned in the following table from <STUDIO\_ROOT>/etc/domino/<platform> directory to the Domino servers root directory. The native library is selected based on the platform on which Domino server is running.

Library file	Supported operating systems
waldinbound.dll	Windows 32 bit
waldinbound.dll	Windows 64 bit
libwaldinbound_r.a	AIX® 32 bit
libwaldinbound.so	Redhat 32 bit
libwaldinbound.so	Suse 32 bit
libwaldinbound.so	Solaris 32 bit

2. Search for notes.ini file in the Domino server. Open the file and add an entry at the end of the file.

```
EXTMGR_ADDINS=waldinbound
```

3. Copy the inbound event database (filename : waldinbound.nsf) from the (<STUDIO ROOT>/etc/domino/) to the Domino server's data directory (<DominoRoot>/data).
4. Open the inbound event database (waldinbound.nsf) by using Lotus Notes® and configure the event activity.
5. The following are the steps for configuring WALD inbound event table.
  - o Select the EventTriggerConfigurationView. If there is an entry, edit it. If there is no entry, create a new configuration.
  - o Enter a value for connector ID. This is optional.
  - o Enter the database name and form (both are case sensitive) for which events need to be generated for the field 'Monitored documents'. The same database and form will be selected during discovery of the inbound activity. The syntax is shown below.
    - DatabaseName:formName
    - SampleDatabase.nsf:Employee
    - TestDatabase.nsf:Form1:TestDatabase.nsf:Form2. (For this, events will be generated for both Form1 and Form2.)
6. Select the event type interested.  
Note: The selected event type corresponds to the starter activities (Get Created Documents or Get Updated Documents or Get Deleted Documents).
7. Save the configuration (Ctrl + S). Events from the selected databases and forms get triggered and are available in the EventView of the inbound event database.
8. Restart Domino server. Test from Lotus Notes by using sample data and make sure that the events are getting generated for the configuration.
9. Configure the starter activity in Studio. Then create or update or delete a document (based on the configuration chosen in EventTriggerConfigurationView) for the configured Domino databases, which triggers an event. The event is picked by the Domino starter activity and processed.

**Parent topic:** [Domino Activities](#)

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## Get Created Documents activity

---

Use the Get Created Documents activity to get the documents (which are of interest) that were created on the Domino® server. The activity polls the event table in the Domino server for new events periodically and process them.

Note: Before you configure and use the get created documents activity, refer to [Prerequisites to use Domino inbound activities](#) on the Domino server.

## Adding an inbound Domino activity to the orchestration

---

1. Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.
2. Select the Activities tab and expand the Domino folder.
3. Drag Get Created Documents activity from the Domino folder onto the orchestration. The graphical representation of the orchestration, including the checklist is displayed.
4. The Checklist pane lists the tasks (Summary, Pick Endpoint, Configure, Map outputs) that you must perform to complete the configuration of the inbound activity.

## Naming or renaming a Domino activity

---

1. Click Summary from the Checklist pane. The Summary pane is displayed.
  - o Specify the name of the activity in the Activity Name text box.

## Specifying the endpoint for a Domino activity

---

1. Click Pick Endpoint from the Checklist pane. The Pick Endpoint pane is displayed.
2. Click one of the following options:
  - o Browse... - To select an existing endpoint from the Project Explorer. The Project Explorer shows all the Domino endpoints in the project available for the activity. When you select an endpoint, the endpoint properties are displayed in the Pick Endpoint pane. To edit the endpoint properties, click Edit.
  - o New... - To create a new endpoint. The Create Endpoint window is displayed.
  - o Edit... - To edit an existing endpoint. The Edit Endpoint window is displayed.

Note: Any changes that you make to the endpoint, including configuration properties, affects all orchestrations that use that endpoint. The edits are global, not local.

## Specifying the database and form for a Domino activity

---

1. Click Configure from the Checklist pane. The Configure pane is displayed.
  - o Click Browse to select an existing database from the Browse Domino databases pane. The Browse Domino databases display all the databases for the selected endpoint.
  - o Click Next to select an existing Form from the Browse Domino Forms pane. The Browse Domino Forms displays all the forms in the project available for the activity.  
Note: The Next button is enabled only after you have selected the database name.
  - o Optional: Specify the names of the Additional Databases from which you would like to poll the documents of the form that is selected in the Form field. The databases must be separated by commas. For example, Admin.nsf, names.nsf,. The databases will be polled one after the other. All the databases that are specified in the Additional Database field must have a Form similar to the one configured in the Browse Domino Forms.
  - o Optional: Fields with canonical names accept fields that may have canonical names such as John Smith/IBM/COUNTRY as values, which are separated by commas. Specify the canonical names in this field if you want to convert the values in these fields to internet mail addresses, such as johnsmith@country.ibm.com. Some of the field name examples are: To, From, CC, Chair, Required Attendees, and so on.

## Specifying the map outputs for a Domino activity

---

1. Click Map output from the Checklist pane.

The output parameters for the Domino activity are displayed under the From Activity pane.

Note: You can map the output parameters of the activity that is based on your requirement.

Note: Dynamically added fields present in the Domino document and not generated in the map input/output structures are handled by the Domino connector. While retrieving documents using this activity, the data for these fields are available in the map outputs section under AdditionalFields.

**Parent topic:** [Domino Activities](#)

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## Get Updated Documents activity

---

Use the Get Updated Documents activity to get the documents (which are of interest) that got updated on the Domino® server. The activity polls the event table in the Domino server for new events periodically and process them.

Note: Before you configure and use the get updated documents activity, refer to [Prerequisites to use Domino inbound activities](#) on the Domino server.

### Adding an inbound Domino activity to the orchestration

---

1. Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.
2. Select the Activities tab and expand the Domino folder.
3. Drag Get Updated Documents activity from the Domino folder onto the orchestration. The graphical representation of the orchestration along with the Checklist pane is displayed.
4. The Checklist pane lists the tasks (Summary, Pick Endpoint, Configure, Map outputs) that you must perform to complete the configuration of the inbound activity.

### Naming or renaming a Domino activity

---

1. Click Summary from the Checklist pane. The Summary pane is displayed.
  - o Specify the name of the activity in the Activity Name text box.

### Specifying the endpoint for a Domino activity

---

1. Click Pick Endpoint from the Checklist pane. The Pick Endpoint pane is displayed.
2. Click one of the following options:
  - o Browse... - To select an existing endpoint from the Project Explorer. The Project Explorer displays all the Domino endpoints in the project available for the activity. When you select an endpoint, the endpoint properties are displayed in the Pick Endpoint pane. To edit the endpoint properties, click Edit.
  - o New... - To create a new endpoint. The Create Endpoint window is displayed.
  - o Edit... - To edit an existing endpoint. The Edit Endpoint window is displayed.

Note: Any changes that you make to the endpoint, including configuration properties, affects all orchestrations that use that endpoint. The edits are global, not local.

### Specifying the database and form for a Domino activity

---

1. Click Configure from the Checklist pane. The Configure pane is displayed.
  - o Click Browse to select an existing database from the Browse Domino databases pane. The Browse Domino databases display all the databases for the selected endpoint.
  - o Click Next to select an existing Form from the Browse Domino Forms pane. The Browse Domino Forms displays all the forms in the project available for the activity.  
Note: The Next button is enabled only after you select the database name.
  - o Optional: Specify the names of the Additional Databases from which you would like to poll the documents of the form that is selected in the Form field. The databases must be separated by commas. For example, Admin.nsf, names.nsf,. The databases will be polled one after the other. All the databases that are specified in the Additional Database field must have a Form similar to the one configured in the Browse Domino Forms.
  - o Optional: Fields with canonical names accept fields that may have canonical names such as John Smith/IBM/COUNTRY as values, which are separated by commas. Specify the canonical names in this field if you want to convert the values in these fields to internet mail addresses, such as johnsmith@country.ibm.com. Some of the field name examples are To, From, CC, Chair, Required Attendees, and so on.

### Specifying the map outputs for a Domino activity

---

1. Click Map output from the Checklist pane.

The output parameters for the Domino activity are displayed under the From Activity pane.

Note: You can map the output parameters of the activity that is based on your requirement.

Note: Dynamically added fields present in the Domino document and not generated in the map input/output structures are handled by the Domino connector. While retrieving documents using this activity, the data for these fields are available in the map outputs section under AdditionalFields.

**Parent topic:** [Domino Activities](#)

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## Get Deleted Documents activity

---

Use the Get Deleted Documents activity to get the documents (which are of interest) that were deleted on the Domino® server. The activity polls the event table in the Domino server for new events periodically and process them.

Note: Before you configure and use the get deleted documents activity, refer to [Prerequisites to use Domino inbound activities](#) on the Domino server.

### Adding an inbound Domino activity to the orchestration

---

1. Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.
2. Select the Activities tab and expand the Domino folder.
3. Drag Get Deleted Documents activity from the Domino folder onto the orchestration. The graphical representation of the orchestration along with the Checklist pane is displayed.
4. The Checklist pane lists the tasks (Summary, Pick Endpoint, Configure, Map outputs) that you must perform to complete the configuration of the inbound activity.

### Naming or renaming a Domino activity

---

1. Click Summary from the Checklist pane. The Summary pane is displayed.
  - o Specify the name of the activity in the Activity Name text box.

### Specifying the endpoint for a Domino activity

---

1. Click Pick Endpoint from the Checklist pane. The Pick Endpoint pane is displayed.
2. Click one of the following options:
  - o Browse... - To select an existing endpoint from the Project Explorer. The Project Explorer shows all the Domino endpoints in the project available for the activity. When you select an endpoint, the endpoint properties display in the Pick Endpoint pane. To edit the endpoint properties, click Edit.
  - o New... - To create a new endpoint. The Create Endpoint window is displayed.
  - o Edit... - To edit an existing endpoint. The Edit Endpoint window is displayed.

Note: Any changes that you make to the endpoint, including configuration properties, affects all orchestrations that use that endpoint. The edits are global, not local.

### Specifying the database and form for a Domino activity

---

1. Click Configure from the Checklist pane. The Configure pane is displayed.
  - o Click Browse to select an existing database from the Browse Domino databases pane. The Browse Domino databases display all the databases for the selected endpoint.

- Click Next to select an existing Form from the Browse Domino Forms pane. The Browse Domino Forms displays all the forms in the project available for the activity.  
Note: The Next button is enabled only after you have selected the database name.
- Optional: Specify the names of the Additional Databases from which you would like to poll the documents of the form that is selected in the Form field. The databases must be separated by commas. For example, Admin.nsf, names.nsf,. The databases will be polled one after the other. All the databases that are specified in the Additional Database field must have a Form similar to the one configured in the Browse Domino Forms.
- Optional: Fields with canonical names accept fields that may have canonical names such as John Smith/IBM/COUNTRY as values, which are separated by commas. Specify the canonical names in this field if you want to convert the values in these fields to internet mail addresses, such as johnsmith@country.ibm.com. Some of the field name examples are To, From, CC, Chair, Required Attendees, and so on.

## Specifying the map outputs for a Domino activity

---

1. Click Map output from the Checklist pane.

The output parameters for the Domino activity are displayed under the From Activity pane.

Note: You can map the output parameters of the activity that is based on your requirement.

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## Handling Date/Time and Time zone data types

---

In the Lotus Domino form, a field of Date/Time type can be configured to represent only a date value, time value, or both date and time values. This configuration is done while creating/editing the form in Domino Designer. So, when a document is created for such a form, the value can be a date, time, or a datetime.

For example, if a form representing a Calendar has the following fields:

Table 1. Example

Fields	Domino Data type
startDate	Date/Time (represents only date)
startTime	Date/Time (represents only time)
endDate	Date/Time (represents only date)
endTime	Date/Time (represents only time)
bothDateAndTime	Date/Time (represents both date and time)
timeZone	Time zone
Subject	Text
Body	Text

If a valid document is created for this form, then:

- startDate and endDate will only accept a date value
- startTime and endTime will only accept a time value
- bothDateAndTime will only accept date and time
- timeZone will only accept a time zone value

From Cast Iron version 6.1.0.9 onwards, Date/Time data type is handled as described in the following points:

1. A Domino field of type Date/Time is represented as xsd:string in the map input and map output of the activity.

2. The only supported syntax of the input values for the Date/Time fields in map input are:
  - a. If the field represents only date: `MM/dd/yyyy`. Example : 05/27/2012.
  - b. If the field represents only time (24 hour format): `HH:mm:ss`. Example: 22:15:30.
  - c. If the field represents both date and time (24 hour format): `MM/dd/yyyy HH:mm:ss`. Example: 05/31/2012 23:59:59.
3. The output from the activity also follows the same syntax as the Date/Time fields, in most cases.
4. The preceding syntax is used by the map input and output irrespective of:
  - a. The date and time format of the operating system on which the Domino server is running.
  - b. The date and time format settings configured when creating the form in Domino designer.
5. The Time zone value is also represented as `xsd:string` in the map input and output. The following technote from Lotus Domino gives more information about the syntax: <http://www-01.ibm.com/support/docview.wss?uid=swg21163045>. For more information about Time zone in Lotus Domino, see Lotus Domino documentation.

Note:

1. In the Cast Iron 6.1.0.6 version and the earlier versions, the Domino Date/Time field was generated as `xsd:date`, which was not able to handle all combinations of the input values.
2. Old projects developed using the 6.1.0.6 version or earlier versions that are already running, will work fine with same old behavior, that is, Date/Time represented as `xsd:date`.
3. For all the orchestrations created newly using the 6.1.0.9 version and later versions, Date/Time field will be generated as `xsd:string`.
4. If the old projects require the new behavior, that is, to generate Date/Time as `xsd:string`, then the objects need to be refreshed from the Configure panel of the activity in the Studio 6.1.0.9 version or later versions. Mapping must be validated after this change.

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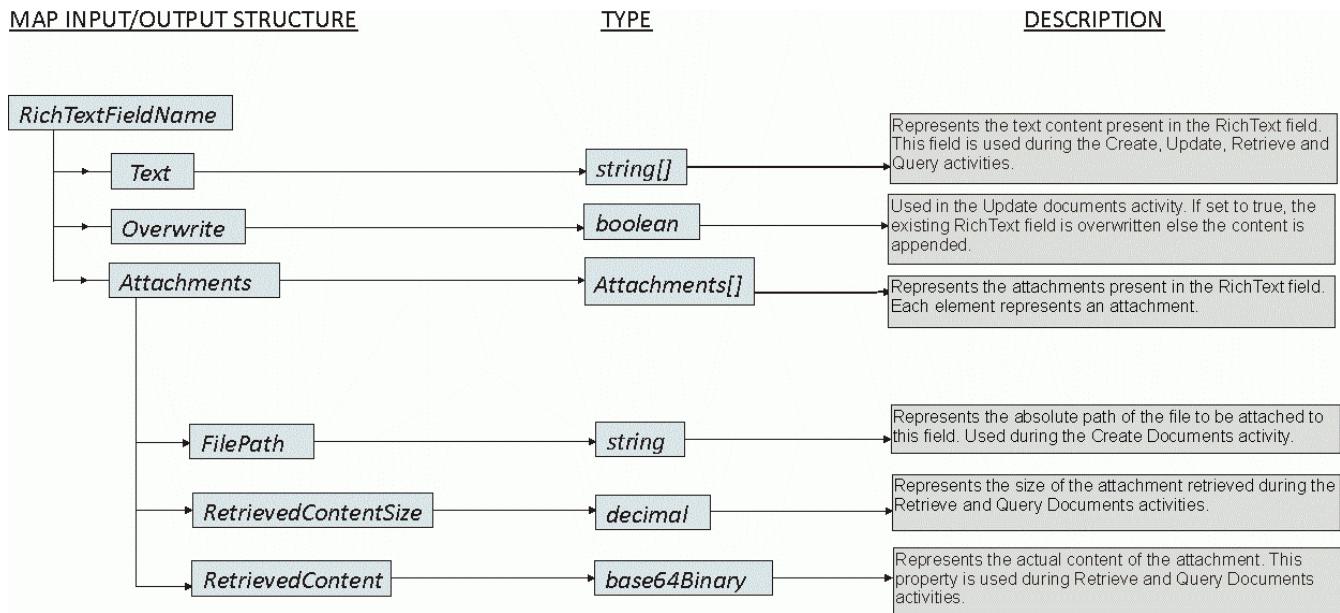
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## Rich text support for Domino connector

The Domino connector supports RichText type in forms. Fields of RichText type can store both text and attachments as part of the document. The connector supports attachments only for the Retrieve and Query Document activities. Text content can be used for the Create, Update, Retrieve, and Query Document activities.

The following figure describes the structure of the RichText field when a form is discovered and the map input and ouput are generated.



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## Troubleshooting and support

---

Troubleshooting techniques and self-help information help you identify and solve problems quickly. This topic provides potential solutions for issues you would have with the Domino® connector.

### New fields added to the calendar object

---

From Cast Iron® version 6.3.0.2 onwards, you can get the invitee details, date/time, and the room details, in response to retrieving and querying a calendar entry using the Domino connector.

### Static subform behavior

---

In the earlier versions of Domino connector (before v7.0.0.0), the fields present in a subform (statically embedded in the main form) were generated as strings in Map Inputs/Map Outputs, irrespective of the datatypes that are defined for the fields. This issue is fixed in v7.0.0.0 and the data type of the fields are generated correctly.

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## Dropbox Activities

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- [Creating or editing an endpoint for Dropbox Activity.](#)
- [Activity: Download File](#)
- [Activity: Upload File](#)
- [Activity: Commit a Chunked Upload](#)
- [Activity: Get File Details](#)
- [Activity: Get File Copy reference](#)
- [Activity: Copy File](#)
- [Activity: Delete File](#)
- [Activity: Move File](#)
- [Activity: Search Files](#)
- [Activity: Get Shared Link](#)
- [Activity: Copy Folder](#)
- [Activity: Create Folder](#)
- [Activity: Delete Folder](#)
- [Activity: Move Folder](#)
- [Activity: Get Folder Details](#)
- [Activity: Get User Details](#)
- [Activity: Preview File](#)
- [Activity: Restore File Revision](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_dropbox.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_dropbox.html)

## [Creating or editing an endpoint for Dropbox Activity.](#)

---

Endpoints provide the configuration information that Studio and the Integration Appliance use to connect to a Dropbox Server.

- [Selecting or editing a Dropbox endpoint](#)

**Parent topic:** [Dropbox Activities](#)

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#### [Feedback | Notices](#)

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## [Selecting or editing a Dropbox endpoint](#)

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1. In the Create Endpoint or Edit Endpoint pane, Configure the Dropbox Connection details as described in the following table.

Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.

2. Click Test Connection to confirm that the connection details are valid and you are able to connect to the Dropbox server successfully.

3. Click OK.

*Table: Connection properties*

Field Name	Description
------------	-------------

URL	URL Endpoint to connect and generate Access Token.
Oauth2 Access Token	Access Token as specified by user for OAuth based authentication.
Proxy Host	Proxy host name of the Proxy Server to connect. (Optional)
Proxy Port	Proxy password of the Proxy Server to connect. (Optional)
Proxy Username	Proxy Username of the Proxy Server to connect. (Optional)
Proxy Password	Proxy Password of the Proxy Server to connect. (Optional)

Note: To generate the access token, check Dropbox Create an App from the App console of Dropbox. You could also follow the Dropbox documentation.

**Parent topic:** [Creating or editing an endpoint for Dropbox Activity](#).

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## Activity: Download File

Downloads a file. Note that this call goes to api-content.dropbox.com instead of api.dropbox.com. This method also supports chunked download to allow retrieving partial file contents.

- [Add the Download File Activity in the orchestration](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Dropbox Activities](#)

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## Add the Download File Activity in the orchestration

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Dropbox folder.
3. Drag the Dropbox "Download File" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Dropbox endpoint](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Download File](#)

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## Creating, selecting, or editing a Dropbox endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Download File Activity in the orchestration](#)

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## Mapping the inputs of the Activity

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1.

**Parent topic:** [Add the Download File Activity in the orchestration](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_mapping\\_the\\_inputs\\_of\\_the\\_acti.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_mapping_the_inputs_of_the_acti.html)

## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Download File Activity

Name	Type	Required	Description
Path	String	Yes	The path to the file you want to retrieve.
rev	string	No	The revision of the file to retrieve. This defaults to the most recent revision.
retrieveChunk -> startByte	integer	No	Only required for chunked download. startByte specifies the From which byte the data needs to be downloaded.
retrieveChunk -> endByte	Integer	No	Only required for chunked download. endByte specifies the end byte to which byte the data needs to be downloaded.

fileType	String	yes	Specify the fileType to get the data in specified format. Drop down displayed to select either binaryContent or textContent.
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- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Dropbox Orchestration](#)

**Parent topic:** [Activity: Download File](#)

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## Mapping the outputs of the Activity

Create a map between the Dropbox output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
path	string	Yes	Path of the file downloaded
fileType	String	Yes	FileType as specified
textContent	String	No	Depends on the type selected the data will be displayed.
binaryContent	Binary	No	Depends on the type selected the data will be displayed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Note about Deploying a Dropbox Orchestration

The project for Dropbox connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Dropbox activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Activity: Upload File

This activity uploads a file with the given data to the provided path. Can also upload large files to Dropbox in multiple chunks. Also has the ability to resume if the upload is interrupted. If Chunked\_Upload then committing the chunked upload is needed using commit chunked upload activity.

- [Add the Upload File Activity in the orchestration](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Dropbox Activities](#)

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## Add the Upload File Activity in the orchestration

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Dropbox folder.
3. Drag the Dropbox "Upload File" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Dropbox endpoint](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Upload File](#)

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## Creating, selecting, or editing a Dropbox endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Upload File Activity in the orchestration](#)

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## Mapping the inputs of the Activity

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1.

**Parent topic:** [Add the Upload File Activity in the orchestration](#)

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## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Upload File

Name	T y p e r e d	R e q ui r e d	Description
isChu nkedU pload	B o o l e a n	Y e s	To be set to true if chunked upload.
chunk detail s- >uplo adId	I n t e g e r	N o	If Chunked upload is true then upload id can be given. The unique ID of the in-progress upload on the server. If left blank, the server will create a new upload session.
Chunk detail s â†’ offset	s tr i n g	N o	If Chunked upload is true then offset can be given.
path	s y tr e i n g	y es	The full path to the file you want to write to. This parameter should not point to a folder. This is valid only for non chunked upload.
overw rite	B o o l	N o	This value, either true (default) or false, determines whether an existing file will be overwritten by this upload. If true, any existing file will be overwritten. If false, the other parameters determine whether a conflict occurs and how that conflict is resolved.

	e a n	This is valid only for non chunked upload.
autore name	b o o l e a n	<p>This value, either true (default) or false, determines what happens when there is a conflict. If true, the file being uploaded will be automatically renamed to avoid the conflict. (For example, test.txt might be automatically renamed to test (1).txt.) The new name can be obtained from the returned metadata. If false, the call will fail with a 409 (Conflict) response code.</p> <p>This is valid only for non chunked upload.</p>
locale	s t r i n g	<p>The metadata returned on successful upload will have its size field translated based on the given locale.</p> <p>This is valid only for non chunked upload.</p>
parent rev	s n t r o i n g	<p>If present, this parameter specifies the revision of the file you're editing. If parent_rev matches the latest version of the file on the user's Dropbox, that file will be replaced. Otherwise, a conflict will occur. If you specify a parent_rev and that revision doesn't exist, the file won't save (error 400). You can get the most recent rev by performing GetFileDetails activity.</p> <p>This is valid only for non chunked upload.</p>
textContent	s t r i n g	If fileType is textContent then data need to be provided here to upload the same content. Need to be provided for both chunked and non chunked upload
binary Content	b i n a r y	If fileType is binaryContent then data need to be provided here to upload the same content. Need to be provided for both chunked and non chunked upload
fileType	s y t r e i n g	Specify the fileType to get the data in specified format. Drop down displayed to select either binaryContent or textContent.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Dropbox Orchestration](#)

**Parent topic:** [Activity: Upload File](#)

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## Mapping the outputs of the Activity

Create a map between the dropbox output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	D at	R e	Description

	a t y p e	q u i r e	d
Chunkdetails â†'upload_id	st ri n g	Y e s	The unique ID of the in-progress upload on the server. If left blank, the server will create a new upload session.
Chunkdetails â†'offset	St ri n g	N o	The byte offset of this chunk, relative to the beginning of the full file. The server will verify that this matches the offset it expects. If it does not, the server will return an error with the expected offset.
Chunkdetails â†'expires	St ri n g	y e s	Expiry time at which the chunked data might expire. This will be a quite a long time for user to commit the chunk data.
revision	in te g er	N o	A deprecated field that semi-uniquely identifies a file. Use rev instead.
bytes	in te g er	y e s	The file size in bytes.
thumb_exists	b o ol e an	y e s	True if the file is an image that can be converted to a thumbnail via the /thumbnails call.
rev	st ri n g	y e s	A unique identifier for the current revision of a file. This field is the same rev as elsewhere in the API and can be used to detect changes and avoid conflicts.
modified	st ri n g	y e s	The last time the file was modified on Dropbox, in the standard date format (not included for the root folder).
mime_type	st ri n g	y e s	The response type for example â€œapplication/pdfâ€
path	st ri n g	y e s	Returns the canonical path to the file or folder.
is_dir	b o ol e an	y e s	Whether the given entry is a folder or not.
size	st ri n g	y e s	A human-readable description of the file size (translated by locale).

root	string	yes	The root or top-level folder depending on your access level. All paths returned are relative to this root level. Permitted values are either dropbox or app_folder.
client_mtime	string	yes	For files, this is the modification time set by the desktop client when the file was added to Dropbox, in the standard date format. Since this time is not verified (the Dropbox server stores whatever the desktop client sends up), this should only be used for display purposes (such as sorting) and not, for example, to determine if a file has changed or not.
icon	string	yes	The name of the icon used to illustrate the file type in Dropbox's icon library.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Note about Deploying a Dropbox Orchestration

The project for Dropbox connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Dropbox activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Activity: Commit a Chunked Upload

Completes an upload initiated by the /chunked\_upload activity. Saves a file uploaded via chunked\_upload to a user's Dropbox. Note that this call goes to api-content.dropbox.com instead of api.dropbox.com.

- [Add the Commit a Chunked Upload Activity in the orchestration:](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Dropbox Activities](#)

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## Add the Commit a Chunked Upload Activity in the orchestration:

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Dropbox folder.
3. Drag the Dropbox 'Commit a Chunked Upload' Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Dropbox endpoint](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Commit a Chunked Upload](#)

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## Creating, selecting, or editing a Dropbox endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Commit a Chunked Upload Activity in the orchestration:](#)

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## Mapping the inputs of the Activity

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**Parent topic:** [Add the Commit a Chunked Upload Activity in the orchestration:](#)

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## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Table 1. Commit a Chunked Upload Activity

Name	Type	Required	Description
path	string	Yes	The full path to the file you want to write to. This parameter should not point to a folder.
upload_id	string	Yes	Used to identify the chunked upload session you'd like to commit.
overwrite	boolean	No	This value, either true (default) or false, determines whether an existing file will be overwritten by this upload. If true, any existing file will be overwritten. If false, the other parameters determine whether a conflict occurs and how that conflict is resolved.
author	boolean	No	This value, either true (default) or false, determines what happens when there is a conflict. If true, the file being uploaded will be automatically renamed to avoid the conflict. (For example, test.txt might be automatically renamed to test (1).txt.) The new name can be obtained from the returned metadata. If false, the call will fail with a 409 (Conflict) response code.
local	string	No	The metadata returned on successful upload will have its size field translated based on the given locale.
parent_rev	boolean	No	If present, this parameter specifies the revision of the file you're editing. If parent_rev matches the latest version of the file on the user's Dropbox, that file will be replaced. Otherwise, a conflict will occur. If you specify a parent_rev and that revision doesn't exist, the file won't save (error 400).

- [Mapping the outputs of the Activity](#)
- [Parent topic: Activity: Commit a Chunked Upload](#)

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[Feedback | Notices](#)

## Mapping the outputs of the Activity

---

Create a map between the Dropbox output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
------	-----------	----------	-------------

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

---

[Feedback](#) | [Notices](#)



## Activity: Get File Details

---

Retrieves file metadata.

- [Add the Get File Details Activity in the orchestration:](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Dropbox Activities](#)

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[Feedback](#) | [Notices](#)



## Add the Get File Details Activity in the orchestration:

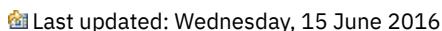
---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Dropbox folder.
3. Drag the Dropbox "Get File Details" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Dropbox endpoint](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Get File Details](#)

---

[Feedback](#) | [Notices](#)



## Creating, selecting, or editing a Dropbox endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Get File Details Activity in the orchestration:](#)

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## Mapping the inputs of the Activity

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1.

**Parent topic:** [Add the Get File Details Activity in the orchestration:](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_mapping\\_the\\_inputs\\_of\\_the\\_acti3.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_mapping_the_inputs_of_the_acti3.html)

## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Table 1. Get File Details Activity

Name	Type	Required	Description
Path	String	Yes	The path to the file.
file_l	Integer	No	Default is 10,000 (max is 25,000). When listing a folder, the service won't report listings containing more than the

limit	n t e g e r	o	specified amount of files and will instead respond with a 406 (Not Acceptable) status response.
hash	S t r i n g	N o	Each call to /metadata on a folder will return a hash field, generated by hashing all of the metadata contained in that response. On later calls to /metadata, you should provide that value via this parameter so that if nothing has changed, the response will be a 304 (Not Modified) status code instead of the full, potentially very large, folder listing. This parameter is ignored if the specified path is associated with a file or if list=false.
list	b o o l e a n	N o	The strings true and false are valid values. true is the default. If true, the folder's metadata will include a contents field with a list of metadata entries for the contents of the folder. If false, the contents field will be omitted.  This field has no effect on Get File Details Activity.
include_deleted	B o o l e a n	N o	Only applicable when list is set. If this parameter is set to true, then contents will include the metadata of deleted children. Note that the target of the metadata call is always returned even when it has been deleted (with is_deleted set to true) regardless of this flag.
rev	s t r i n g	N o	If you include a particular revision number, then only the metadata for that revision will be returned.
locale	S t r i n g	N o	The metadata returned will have its size field translated based on the given locale.
include_media_info	b o o l e a n	N o	If true, each file will include a photo_info dictionary for photos and a video_info dictionary for videos with additional media info. If the data isn't available yet, the string pending will be returned instead of a dictionary.
include_member_sharing	b o o l e a n	N o	If true, metadata for a shared folder will include a list of members and a list of groups.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Dropbox Orchestration](#)

**Parent topic:** [Activity: Get File Details](#)

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## Mapping the outputs of the Activity

---

Create a map between the Dropbox output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Datatype	Role	Description
revision	integer	No	A deprecated field that semi-uniquely identifies a file. Use rev instead.
bytes	integer	yes	The file size in bytes.
thumbmb	boolean	yes	True if the file is an image that can be converted to a thumbnail via the /thumbnails call.
_exists	boolean	yes	
rev_stri	string	yes	A unique identifier for the current revision of a file. This field is the same rev as elsewhere in the API and can be used to detect changes and avoid conflicts.
modified	string	yes	The last time the file was modified on Dropbox, in the standard date format (not included for the root folder).
mime_type	string	yes	The response type for example "application/pdf"
path	string	yes	Returns the canonical path to the file or folder.
is_dir	boolean	yes	Whether the given entry is a folder or not.
size	string	yes	A human-readable description of the file size (translated by locale).
root	string	yes	The root or top-level folder depending on your access level. All paths returned are relative to this root level. Permitted values are either dropbox or app_folder.
client	string	yes	For files, this is the modification time set by the desktop client when the file was added to Dropbox, in the standard date format. Since this time is not verified (the Dropbox server stores whatever the desktop client sends up), this

mti me		should only be used for display purposes (such as sorting) and not, for example, to determine if a file has changed or not.
ico n	st ri ng	The name of the icon used to illustrate the file type in Dropbox's icon library.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Note about Deploying a Dropbox Orchestration

The project for Dropbox connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Dropbox activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Activity: Get File Copy reference

This activity creates and returns a copy\_ref to a file. This reference string can be used to copy that file to another user's Dropbox by passing it in as the from\_copy\_ref parameter of Copy File activity.

- [Add the Get File Copy reference Activity in the orchestration](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Dropbox Activities](#)

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## Add the Get File Copy reference Activity in the orchestration

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
  2. Select the Activities tab and expand the Dropbox folder.
  3. Drag the Dropbox "Get File Copy reference" Activity onto the orchestration.
  4. Select the Activity. The Checklist is displayed.
- [Creating, selecting, or editing a Dropbox endpoint](#)

- [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Get File Copy reference](#)

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## Creating, selecting, or editing a Dropbox endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Get File Copy reference Activity in the orchestration](#)

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## Mapping the inputs of the Activity

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**Parent topic:** [Add the Get File Copy reference Activity in the orchestration](#)

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## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Table 1. Get File Copy reference Activity

Name	Type	Required	Description
path	String	Yes	The path to the file you want a copy_ref to refer to.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Dropbox Orchestration](#)

**Parent topic:** [Activity: Get File Copy reference](#)

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## Mapping the outputs of the Activity

---

Create a map between the Dropbox output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
expires	String	Yes	Expiration time . For compatibility reasons, it returns the link's expiration date in Dropbox's usual date format. All links are currently set to expire far enough in the future so that expiration is effectively not an issue.
copy_ref	String	Yes	A copy_ref to the specified file.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Note about Deploying a Dropbox Orchestration

---

The project for Dropbox connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Dropbox activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Activity: Copy File

---

Copies a file to a new location.

- [Add the Copy File Activity in the orchestration:](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Dropbox Activities](#)

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## Add the Copy File Activity in the orchestration:

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Dropbox folder.
3. Drag the Dropbox “Copy File” Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Dropbox endpoint](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Copy File](#)

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## Creating, selecting, or editing a Dropbox endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Copy File Activity in the orchestration:](#)

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# Mapping the inputs of the Activity

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**Parent topic:** [Add the Copy File Activity in the orchestration](#):

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## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Copy File Activity

Name	Type	Required	Description
root	String	yes	required The root relative to which from_path and to_path are specified. Valid values are auto (recommended), sandbox, and dropbox.
from_copy_ref	String	No	Specifies a copy_ref generated from a previous /copy_ref call. Must be used instead of the from_path parameter.
from_path	String	No	Specifies the file or folder to be copied from relative to root.
to_path	String	yes	required Specifies the destination path, including the new name for the file or folder, relative to root.
locale	string	No	The metadata returned will have its size field translated based on the given locale.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Dropbox Orchestration](#)

**Parent topic:** [Activity: Copy File](#)

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# Mapping the outputs of the Activity

---

Create a map between the Dropbox output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
revision	integer	No	A deprecated field that semi-uniquely identifies a file. Use rev instead.

	r		
bytes	integer	yes	The file size in bytes.
thumb_exists	boolean	yes	True if the file is an image that can be converted to a thumbnail via the /thumbnails call.
rev	string	yes	A unique identifier for the current revision of a file. This field is the same rev as elsewhere in the API and can be used to detect changes and avoid conflicts.
modified	string	yes	The last time the file was modified on Dropbox, in the standard date format (not included for the root folder).
path	string	yes	Returns the canonical path to the file or folder.
is_dir	boolean	yes	Whether the given entry is a folder or not.
size	string	yes	A human-readable description of the file size (translated by locale).
root	string	yes	The root or top-level folder depending on your access level. All paths returned are relative to this root level. Permitted values are either dropbox or app_folder.
icon	string	yes	The name of the icon used to illustrate the file type in Dropbox's icon library.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Note about Deploying a Dropbox Orchestration

The project for Dropbox connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Dropbox activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Activity: Delete File

Deletes a file from the path provided

- [Add the Delete File Activity in the orchestration:](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Dropbox Activities](#)

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## Add the Delete File Activity in the orchestration:

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Dropbox folder.
3. Drag the Dropbox "Delete File" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Dropbox endpoint](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Delete File](#)

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## Creating, selecting, or editing a Dropbox endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - Select Browse. The Project Explorer is displayed.
  - Select an existing endpoint and click OK.
1. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
3. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Delete File Activity in the orchestration:](#)

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## Mapping the inputs of the Activity

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**Parent topic:** [Add the Delete File Activity in the orchestration:](#)

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## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Delete File Activity

Name	Type	Required	Description
root	String	Yes	The root relative to which path is specified. Valid values are auto (recommended), sandbox, and dropbox.
path	string	Yes	The path to the file to be deleted.
locale	string	no	The metadata returned will have its size field translated based on the given locale.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Dropbox Orchestration](#)

**Parent topic:** [Activity: Delete File](#)

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## Mapping the outputs of the Activity

---

Create a map between the Dropbox output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
revision	integer	No	A deprecated field that semi-uniquely identifies a file. Use rev instead.
bytes	integer	yes	The file size in bytes.
thumb_exists	boolean	yes	True if the file is an image that can be converted to a thumbnail via the /thumbnails call.
rev	string	yes	A unique identifier for the current revision of a file. This field is the same rev as elsewhere in the API and can be used to detect changes and avoid conflicts.
modified	string	yes	The last time the file was modified on Dropbox, in the standard date format (not included for the root folder).
mime_type	string	yes	The response type for example "application/pdf"
path	string	yes	Returns the canonical path to the file or folder.
is_dir	boolean	yes	Whether the given entry is a folder or not.

size	string	yes	A human-readable description of the file size (translated by locale).
root	string	yes	The root or top-level folder depending on your access level. All paths returned are relative to this root level. Permitted values are either dropbox or app_folder.
is_deleted	boolean	yes	To check if the file is deleted or not.
icon	string	yes	The name of the icon used to illustrate the file type in Dropbox's icon library.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_mapping\\_the\\_outputs\\_of\\_the\\_act6.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_mapping_the_outputs_of_the_act6.html)

## Note about Deploying a Dropbox Orchestration

The project for Dropbox connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Dropbox activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_note\\_about\\_deploying\\_a\\_dropbox5.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_note_about_deploying_a_dropbox5.html)

## Activity: Move File

Moves a file to a new location.

- [Add the Move File Activity in the orchestration:](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Dropbox Activities](#)

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016

file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_activity\\_\\_move\\_file.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_activity__move_file.html)

## Add the Move File Activity in the orchestration:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Dropbox folder.
3. Drag the Dropbox "Move File" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.

- [Creating, selecting, or editing a Dropbox endpoint](#)
- [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Move File](#)

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[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_add\\_the\\_move\\_file\\_activity\\_in\\_.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_add_the_move_file_activity_in_.html)

## [Creating, selecting, or editing a Dropbox endpoint](#)

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Move File Activity in the orchestration](#):

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 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_creating\\_\\_selecting\\_\\_or\\_editin7.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_creating__selecting__or_editin7.html)

## [Mapping the inputs of the Activity](#)

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1.

**Parent topic:** [Add the Move File Activity in the orchestration](#):

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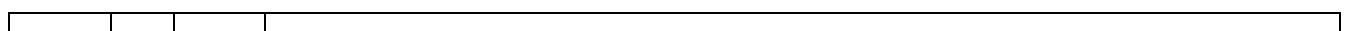
 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_mapping\\_the\\_inputs\\_of\\_the\\_acti7.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_mapping_the_inputs_of_the_acti7.html)

## [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

---

Move File Activity



Name	Type	Required	Description
root	String	Yes	The root relative to which from_path and to_path are specified. Valid values are auto (recommended), sandbox, and dropbox.
from_path	string	Yes	Specifies the file to be moved from relative to root.
to_path	string	yes	Specifies the destination path, including the new name for the file , relative to root.
locale	string	no	The metadata returned will have its size field translated based on the given locale.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Dropbox Orchestration](#)

**Parent topic:** [Activity: Move File](#)

[Feedback](#) | [Notices](#)

>Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_click\\_on\\_map\\_input\\_link\\_in\\_con7.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_click_on_map_input_link_in_con7.html)

## Mapping the outputs of the Activity

Create a map between the Dropbox output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Datatype	Required	Description
revision	integer	No	A deprecated field that semi-uniquely identifies a file. Use rev instead.
bytes	integer	yes	The file size in bytes.
thumb_exists	boolean	yes	True if the file is an image that can be converted to a thumbnail via the /thumbnails call.
rev_striking	string	yes	A unique identifier for the current revision of a file. This field is the same rev as elsewhere in the API and can be used to detect changes and avoid conflicts.
modified	string	yes	The last time the file was modified on Dropbox, in the standard date format (not included for the root folder).
mime_type	string	yes	The response type for example "application/pdf"

<code>_type</code>			
<code>path</code>	<code>string</code>	<code>yes</code>	Returns the canonical path to the file or folder.
<code>is_dir</code>	<code>boolean</code>	<code>yes</code>	Whether the given entry is a folder or not.
<code>size</code>	<code>string</code>	<code>yes</code>	A human-readable description of the file size (translated by locale).
<code>root</code>	<code>string</code>	<code>yes</code>	The root or top-level folder depending on your access level. All paths returned are relative to this root level. Permitted values are either <code>dropbox</code> or <code>app_folder</code> .
<code>client_modifying_time</code>	<code>string</code>	<code>yes</code>	For files, this is the modification time set by the desktop client when the file was added to Dropbox, in the standard date format. Since this time is not verified (the Dropbox server stores whatever the desktop client sends up), this should only be used for display purposes (such as sorting) and not, for example, to determine if a file has changed or not.
<code>icon</code>	<code>string</code>	<code>yes</code>	The name of the icon used to illustrate the file type in Dropbox's icon library.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_mapping\\_the\\_outputs\\_of\\_the\\_act7.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_mapping_the_outputs_of_the_act7.html)

## Note about Deploying a Dropbox Orchestration

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The project for Dropbox connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Dropbox activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_note\\_about\\_deploying\\_a\\_dropbox6.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_note_about_deploying_a_dropbox6.html)

## Activity: Search Files

---

Returns metadata for all files and folders whose filename contains the given search string as a substring. Searches are limited to the folder path and its sub-folder hierarchy provided in the call.

- [Add the Search Files Activity in the orchestration:](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Dropbox Activities](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_activity\\_\\_search\\_files.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_activity__search_files.html)

## Add the Search Files Activity in the orchestration:

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Dropbox folder.
3. Drag the Dropbox "Search Files" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Dropbox endpoint](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Search Files](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_add\\_the\\_search\\_files\\_activity\\_.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_add_the_search_files_activity_.html)

## Creating, selecting, or editing a Dropbox endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Search Files Activity in the orchestration:](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_creating\\_\\_selecting\\_\\_or\\_editin8.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_creating__selecting__or_editin8.html)

## Mapping the inputs of the Activity

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- 1.

**Parent topic:** Add the Search Files Activity in the orchestration:

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>Last updated: Wednesday, 15 June 2016

file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_mapping\\_the\\_inputs\\_of\\_the\\_acti8.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_mapping_the_inputs_of_the_acti8.html)

## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Search Files Activity

Name	Type	Required	Description
query	String	Yes	The search string. This string is split (on spaces) into individual words. Files and folders will be returned if they contain all words in the search string.
path	string	Yes	The path to the folder you want to search from.
file_limit	integer	No	The maximum and default value is 1,000. No more than file_limit search results will be returned.
include_deleted	boolean	no	If this parameter is set to true, then files and folders that have been deleted will also be included in the search.
locale	string	no	The metadata returned will have its size field translated based on the given locale.
include_membership	boolean	No	If true, metadata for a shared folder will include a list of members and a list of groups.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Dropbox Orchestration](#)

**Parent topic:** Activity: Search Files

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Last updated: Wednesday, 15 June 2016

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_click\\_on\\_map\\_input\\_link\\_in\\_con8.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_click_on_map_input_link_in_con8.html)

## Mapping the outputs of the Activity

---

Create a map between the Dropbox output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
revision	integer	No	A deprecated field that semi-uniquely identifies a file. Use rev instead.
bytes	integer	yes	The file size in bytes.

	r		
thumb_exists	boolean	yes	True if the file is an image that can be converted to a thumbnail via the /thumbnails call.
rev	string	yes	A unique identifier for the current revision of a file. This field is the same rev as elsewhere in the API and can be used to detect changes and avoid conflicts.
modified	string	yes	The last time the file was modified on Dropbox, in the standard date format (not included for the root folder).
mime_type	string	yes	The response type for example "application/pdf"
path	string	yes	Returns the canonical path to the file or folder.
is_dir	boolean	yes	Whether the given entry is a folder or not.
size	string	yes	A human-readable description of the file size (translated by locale).
root	string	yes	The root or top-level folder depending on your access level. All paths returned are relative to this root level. Permitted values are either dropbox or app_folder.
icon	string	yes	The name of the icon used to illustrate the file type in Dropbox's icon library.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_mapping\\_the\\_outputs\\_of\\_the\\_act8.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_mapping_the_outputs_of_the_act8.html)

## Note about Deploying a Dropbox Orchestration

The project for Dropbox connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Dropbox activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_note\\_about\\_deploying\\_a\\_dropbox7.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_note_about_deploying_a_dropbox7.html)

## Activity: Get Shared Link

Creates and returns a shared link to a file or folder.

- [Add the Get Shared Link Activity in the orchestration:](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Dropbox Activities](#)

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_activity\\_\\_get\\_shared\\_link.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_activity__get_shared_link.html)

## Add the Get Shared Link Activity in the orchestration:

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Dropbox folder.
3. Drag the Dropbox "Get Shared Link" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Dropbox endpoint](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Get Shared Link](#)

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[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_add\\_the\\_get\\_shared\\_link\\_activi.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_add_the_get_shared_link_activi.html)

## Creating, selecting, or editing a Dropbox endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
  2. Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Get Shared Link Activity in the orchestration:](#)

---

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_creating\\_\\_selecting\\_\\_or\\_editin9.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_creating__selecting__or_editin9.html)

## Mapping the inputs of the Activity

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- 1.

**Parent topic:** [Add the Get Shared Link Activity in the orchestration:](#)

>Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_mapping\\_the\\_inputs\\_of\\_the\\_acti9.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_mapping_the_inputs_of_the_acti9.html)

## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Get Shared Link Activity

Name	Type	Required	Description
path	String	Yes	Creates and returns a shared link to a file or folder.
locale	string	no	The metadata returned will have its size field translated based on the given locale.
short_url	boolean	No	When true (default), the URL returned will be shortened using the Dropbox URL shortener. If false, the URL will link directly to the file's preview page.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Dropbox Orchestration](#)

**Parent topic:** [Activity: Get Shared Link](#)

Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_click\\_on\\_map\\_input\\_link\\_in\\_con9.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_click_on_map_input_link_in_con9.html)

## Mapping the outputs of the Activity

---

Create a map between the Dropbox output parameters and the orchestration variables. The expected response is generated on a successful mapping.

N	D	R	Description
a	a	e	
m	t	q	
e	a	u	
t	t	i	
y	y	r	
p	p	e	
e	e	d	
u	s	y	The url field contains the actual shared link URL
r	r	e	
l	n	s	
g	g		
e	s	y	The expires field returns the link's expiration.
x	r	e	
p	n	s	
i	i		
r	r		

e s	v i s i b il it y	Dropbox for Business users can set restrictions on shared links; the visibility field indicates what (if any) restrictions are set on this particular link. Possible values include: "PUBLIC" (anyone can view), "TEAM_ONLY" (only the owner's team can view), "PASSWORD" (a password is required), "TEAM_AND_PASSWORD" (a combination of "TEAM_ONLY" and "PASSWORD" restrictions), or "SHARED_FOLDER_ONLY"
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**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_mapping\\_the\\_outputs\\_of\\_the\\_act9.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_mapping_the_outputs_of_the_act9.html)

## Note about Deploying a Dropbox Orchestration

The project for Dropbox connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Dropbox activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016

file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_note\\_about\\_deploying\\_a\\_dropbox8.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_note_about_deploying_a_dropbox8.html)

## Activity: Copy Folder

Copies a folder to a new location.

- [Add the Copy Folder Activity in the orchestration:](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Dropbox Activities](#)

[Feedback](#) | [Notices](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_activity\\_\\_copy\\_folder.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_activity__copy_folder.html)

## Add the Copy Folder Activity in the orchestration:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.

2. Select the Activities tab and expand the Dropbox folder.
3. Drag the Dropbox "Copy Folder" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Dropbox endpoint](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Copy Folder](#)

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[Feedback](#) | [Notices](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_add\\_the\\_copy\\_folder\\_activity\\_i.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_add_the_copy_folder_activity_i.html)

## [Creating, selecting, or editing a Dropbox endpoint](#)

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Copy Folder Activity in the orchestration](#):

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_creating\\_\\_selecting\\_\\_or\\_editin10.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_creating__selecting__or_editin10.html)

## [Mapping the inputs of the Activity](#)

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**Parent topic:** [Add the Copy Folder Activity in the orchestration](#):

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**Click on Map Input link in Configure Activity section displayed below the orchestration.**

---

## Copy Folder Activity

Name	Type	Required	Description
root	String	yes	required The root relative to which from_path and to_path are specified. Valid values are auto (recommended), sandbox, and dropbox.
from_copy_ref	String	No	Specifies a copy_ref generated from a previous /copy_ref call. Must be used instead of the from_path parameter.
from_path	String	No	Specifies the folder to be copied from relative to root.
to_path	String	yes	required Specifies the destination path, including the new name for the folder, relative to root.
locale	string	No	The metadata returned will have its size field translated based on the given locale.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Dropbox Orchestration](#)

**Parent topic:** [Activity: Copy Folder](#)

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## Mapping the outputs of the Activity

Create a map between the Dropbox output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
revision	integer	No	A deprecated field that semi-uniquely identifies a file. Use rev instead.
bytes	integer	yes	The size in bytes.
thumb_exists	boolean	yes	True if the file is an image that can be converted to a thumbnail via the /thumbnails call.
rev	string	yes	A unique identifier for the current revision of a file. This field is the same rev as elsewhere in the API and can be used to detect changes and avoid conflicts.
modified	string	yes	The last time the folder was modified on Dropbox, in the standard date format (not included for the root folder).
path	string	yes	Returns the canonical path to the folder.
is_dir	boolean	yes	Whether the given entry is a folder or not.
size	string	yes	A human-readable description of the folder size (translated by locale).
root	string	yes	The root or top-level folder depending on your access level. All paths returned are relative to this root level. Permitted values are either dropbox or app_folder.

icon	string	yes	The name of the icon used to illustrate the file type in Dropbox's icon library.
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**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Note about Deploying a Dropbox Orchestration

The project for Dropbox connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Dropbox activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_note\\_about\\_deploying\\_a\\_dropbox9.htm](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_note_about_deploying_a_dropbox9.htm)

## Activity: Create Folder

Creates a folder.

- [Add the Create Folder Activity in the orchestration:](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Dropbox Activities](#)

[Feedback](#) | [Notices](#)

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## Add the Create Folder Activity in the orchestration:

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Dropbox folder.
3. Drag the Dropbox "Create Folder" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Dropbox endpoint](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Create Folder](#)

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## Creating, selecting, or editing a Dropbox endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
  2. Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Create Folder Activity in the orchestration](#):

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_creating\\_\\_selecting\\_\\_or\\_editin11.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_creating__selecting__or_editin11.html)

## Mapping the inputs of the Activity

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**Parent topic:** [Add the Create Folder Activity in the orchestration](#):

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_mapping\\_the\\_inputs\\_of\\_the\\_acti11.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_mapping_the_inputs_of_the_acti11.html)

## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Create Folder Activity

Name	Type	Required	Description
root	String	yes	The root relative to which path is specified. Valid values are auto (recommended), sandbox, and dropbox.
path	String	yes	The path to the new folder to create relative to root.
locale	string	No	The metadata returned will have its size field translated based on the given locale.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Dropbox Orchestration](#)

**Parent topic:** [Activity: Create Folder](#)

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[Feedback](#) | [Notices](#)

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## Mapping the outputs of the Activity

---

Create a map between the Dropbox output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
revision	integer	No	A deprecated field that semi-uniquely identifies a file. Use rev instead.
bytes	integer	yes	The file size in bytes.
thumb_exists	boolean	yes	True if the file is an image that can be converted to a thumbnail via the /thumbnails call.
rev	string	yes	A unique identifier for the current revision of a file. This field is the same rev as elsewhere in the API and can be used to detect changes and avoid conflicts.
modified	string	yes	The last time the file was modified on Dropbox, in the standard date format (not included for the root folder).
path	string	yes	Returns the canonical path to the file or folder.
is_dir	boolean	yes	Whether the given entry is a folder or not.
size	string	yes	A human-readable description of the file size (translated by locale).
root	string	yes	The root or top-level folder depending on your access level. All paths returned are relative to this root level. Permitted values are either dropbox or app_folder.
icon	string	yes	The name of the icon used to illustrate the file type in Dropbox's icon library.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_mapping\\_the\\_outputs\\_of\\_the\\_act11.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_mapping_the_outputs_of_the_act11.html)

## Note about Deploying a Dropbox Orchestration

---

The project for Dropbox connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Dropbox activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Activity: Delete Folder

---

Deletes a Folder from the path provided

- [Add the Delete Folder Activity in the orchestration:](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Dropbox Activities](#)

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## Add the Delete Folder Activity in the orchestration:

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Dropbox folder.
3. Drag the Dropbox "Delete Folder" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Dropbox endpoint](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Delete Folder](#)

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## Creating, selecting, or editing a Dropbox endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - Select Browse. The Project Explorer is displayed.
  - Select an existing endpoint and click OK.

1. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
3. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Delete Folder Activity in the orchestration](#):

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[Feedback](#) | [Notices](#)

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## Mapping the inputs of the Activity

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**Parent topic:** [Add the Delete Folder Activity in the orchestration](#):

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## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Delete Folder Activity

Name	Type	Required	Description
root	String	Yes	The root relative to which path is specified. Valid values are auto (recommended), sandbox, and dropbox.
path	string	Yes	The path to the Folder to be deleted.
locale	string	no	The metadata returned will have its size field translated based on the given locale.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Dropbox Orchestration](#)

**Parent topic:** [Activity: Delete Folder](#)

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## Mapping the outputs of the Activity

---

Create a map between the Dropbox output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
revision	integer	No	A deprecated field that semi-uniquely identifies a file. Use rev instead.
bytes	integer	yes	The file size in bytes.
thumb_exists	boolean	yes	True if the file is an image that can be converted to a thumbnail via the /thumbnails call.
rev	string	yes	A unique identifier for the current revision of a file. This field is the same rev as elsewhere in the API and can be used to detect changes and avoid conflicts.
modified	string	yes	The last time the file was modified on Dropbox, in the standard date format (not included for the root folder).
mime_type	string	yes	The response type for example "application/pdf"
path	string	yes	Returns the canonical path to the file or folder.
is_dir	boolean	yes	Whether the given entry is a folder or not.
size	string	yes	A human-readable description of the file size (translated by locale).
root	string	yes	The root or top-level folder depending on your access level. All paths returned are relative to this root level. Permitted values are either dropbox or app_folder.
is_deleted	boolean	yes	To check if the file is deleted or not.
icon	string	yes	The name of the icon used to illustrate the file type in Dropbox's icon library.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Note about Deploying a Dropbox Orchestration

---

The project for Dropbox connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Dropbox activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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# Activity: Move Folder

---

Moves a folder to a new location.

- Add the Move Folder Activity in the orchestration:
- Click on Map Input link in Configure Activity section displayed below the orchestration.

**Parent topic:** [Dropbox Activities](#)

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[Feedback](#) | [Notices](#)

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## Add the Move Folder Activity in the orchestration:

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Dropbox folder.
3. Drag the Dropbox "Move Folder" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Dropbox endpoint](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Move Folder](#)

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[Feedback](#) | [Notices](#)

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## Creating, selecting, or editing a Dropbox endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Move Folder Activity in the orchestration:](#)

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[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016

## Mapping the inputs of the Activity

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1.

**Parent topic:** [Add the Move Folder Activity in the orchestration:](#)

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[Feedback](#) | [Notices](#)

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## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Move Folder Activity

Name	Type	Required	Description
root	String	Yes	The root relative to which from_path and to_path are specified. Valid values are auto (recommended), sandbox, and dropbox.
from_path	string	Yes	Specifies the folder to be moved from relative to root.
to_path	string	yes	Specifies the destination path, including the new name for the folder , relative to root.
locale	string	no	The metadata returned will have its size field translated based on the given locale.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Dropbox Orchestration](#)

**Parent topic:** [Activity: Move Folder](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_click\\_on\\_map\\_input\\_link\\_in\\_con13.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_click_on_map_input_link_in_con13.html)

## Mapping the outputs of the Activity

---

Create a map between the Dropbox output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	D	R	Description
name	dat	re	

	<b>ty p e</b>	<b>ui re d</b>	
rev_ision	in te ge r	N o	A deprecated field that semi-uniquely identifies a file. Use rev instead.
bytes	in te ge r	y e s	The file size in bytes.
thumb_exists	b oo le an	y e s	True if the file is an image that can be converted to a thumbnail via the /thumbnails call.
rev_stri ng	s t ri ng	y e s	A unique identifier for the current revision of a file. This field is the same rev as elsewhere in the API and can be used to detect changes and avoid conflicts.
modified	s t ri ng	y e s	The last time the file was modified on Dropbox, in the standard date format (not included for the root folder).
mime_type	s t ri ng	y e s	The response type for example "application/pdf"
path	s t ri ng	y e s	Returns the canonical path to the file or folder.
is_dir	b oo le an	y e s	Whether the given entry is a folder or not.
size	s t ri ng	y e s	A human-readable description of the file size (translated by locale).
root	s t ri ng	y e s	The root or top-level folder depending on your access level. All paths returned are relative to this root level. Permitted values are either dropbox or app_folder.
client_mod_time	s t ri ng	y e s	For files, this is the modification time set by the desktop client when the file was added to Dropbox, in the standard date format. Since this time is not verified (the Dropbox server stores whatever the desktop client sends up), this should only be used for display purposes (such as sorting) and not, for example, to determine if a file has changed or not.
icon	s t ri ng	y e s	The name of the icon used to illustrate the file type in Dropbox's icon library.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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[Feedback](#) | [Notices](#)

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## Note about Deploying a Dropbox Orchestration

---

The project for Dropbox connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Dropbox activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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[Feedback](#) | [Notices](#)

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## Activity: Get Folder Details

---

Retrieves Folder metadata.

- [Add the Get Folder Details Activity in the orchestration](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Dropbox Activities](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_activity\\_\\_get\\_folder\\_details.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_activity__get_folder_details.html)

## Add the Get Folder Details Activity in the orchestration

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Dropbox folder.
3. Drag the Dropbox "Get Folder Details" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Dropbox endpoint](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Get Folder Details](#)

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## Creating, selecting, or editing a Dropbox endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Get Folder Details Activity in the orchestration](#)

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## Mapping the inputs of the Activity

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1.

**Parent topic:** [Add the Get Folder Details Activity in the orchestration](#)

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## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Table 1. Get Folder Details Activity

Name	Type	Required	Description
Path	String	Yes	The path to the folder.
file_limit	integer	No	Default is 10,000 (max is 25,000). When listing a folder, the service won't report listings containing more than the specified amount of files and will instead respond with a 406 (Not Acceptable) status response.

- Mapping the outputs of the Activity
  - Note about Deploying a Dropbox Orchestration

## **Parent topic:** Activity: Get Folder Details

## **Feedback | Notices**

Last updated: Wednesday, 15 June 2016

## Mapping the outputs of the Activity

---

Create a map between the Dropbox output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
has_more	boolean	No	If true, then there are more entries available
cursor	integer	yes	A string that encodes the latest information that has been returned.
Entries->thumb_exists	boolean	yes	True if the file is an image that can be converted to a thumbnail via the /thumbnails call.
Entries->rev	string	yes	A unique identifier for the current revision of a file. This field is the same rev as elsewhere in the API and can be used to detect changes and avoid conflicts.
Entries->modified	string	yes	The last time the file was modified on Dropbox, in the standard date format (not included for the root folder).
Entries->modifier	string	yes	For files within a shared folder, this field specifies which user last modified this file.
Entries->path	string	yes	Returns the canonical path to the file or folder.
Entries->is_dir	boolean	yes	Whether the given entry is a folder or not.
Entries->'size'	string	yes	A human-readable description of the file size (translated by locale).
Entries->'root'	string	yes	The root or top-level folder depending on your access level. All paths returned are relative to this root level. Permitted values are either dropbox or app_folder.
Entries->'read_only'	boolean	yes	For shared folders, this field specifies whether the user has read-only access to the folder. For files within a shared folder, this specifies the read-only status of the parent shared folder.
Entries->'icon'	string	yes	The name of the icon used to illustrate the file type in Dropbox's icon library.
Entries->'bytes'	integer	yes	A deprecated field that semi-uniquely identifies a file. Use rev instead.
Entries->revision	integer	yes	The file size in bytes.
reset	string	yes	If true, clear your local state before processing the delta entries. reset is always true on the initial call to /delta

ng | s | (i.e. when no cursor is passed in). Otherwise, it is true in rare situations, such as after server or account maintenance, or if a user deletes their app folder.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Note about Deploying a Dropbox Orchestration

---

The project for Dropbox connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Dropbox activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Activity: Get User Details

---

Retrieves information about the user's account.

- [Add the Get User Details Activity in the orchestration:](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Dropbox Activities](#)

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[Feedback](#) | [Notices](#)

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## Add the Get User Details Activity in the orchestration:

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Dropbox folder.
3. Drag the Dropbox "Get User Details" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Dropbox endpoint](#)
  - [Mapping the inputs of the Activity](#)

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[Feedback](#) | [Notices](#)

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## Creating, selecting, or editing a Dropbox endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** Add the Get User Details Activity in the orchestration:

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## Mapping the inputs of the Activity

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1.

**Parent topic:** Add the Get User Details Activity in the orchestration:

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## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Table 1. Get User Details Activity

Name	Type	Required	Description
locale	String	Yes	Use to specify language settings for user error messages and other language specific text.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Dropbox Orchestration](#)

**Parent topic:** [Activity: Get User Details](#)

[Feedback](#) | [Notices](#)

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## Mapping the outputs of the Activity

Create a map between the Dropbox output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
uid	Integer	No	The user's unique Dropbox ID.
referral_link	integer	yes	The user's referral link.
display_name	string	yes	The user's display name.
locale	string	yes	Locale preference set by the user (e.g. en-us).
email_verifeid	string	yes	Provided the email id verified or not
Team->Teamid	string	No	The ID of the team the user belongs to.
Team â†' name	string	No	The name of the team the user belongs to.
quota_info->datastores	integer	No	No. of datastores
quota_info->quota	string	yes	The user's total quota allocation (bytes). If the user belongs to a team, the team's total quota allocation (bytes).
quota_info->shared	string	yes	The user's used quota in shared folders (bytes). If the user belongs to a team, this includes all usage contributed to the team's quota outside of the user's own used quota (bytes).
quota_info->normal	boolean	yes	The user's used quota outside of shared folders (bytes).
ispaired	string	yes	If true, there is a paired account associated with this user.
country	integer	yes	The user's two-letter country code, if available.
Namedetails â†' familiar name	string	yes	The locale-dependent familiar name for the user.
Name details â†' surname	string	yes	The user's surname.
Name details â†' given name	string	yes	The user's given name.

Email	String	yes	Email id of the user
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**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Note about Deploying a Dropbox Orchestration

The project for Dropbox connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Dropbox activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Activity: Preview File

Gets a preview for a file. Note that this call goes to api-content.dropbox.com instead of api.dropbox.com.

- [Add the Preview File Activity in the orchestration](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Dropbox Activities](#)

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## Add the Preview File Activity in the orchestration

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
  2. Select the Activities tab and expand the Dropbox folder.
  3. Drag the Dropbox "Preview File" Activity onto the orchestration.
  4. Select the Activity. The Checklist is displayed.
- [Creating, selecting, or editing a Dropbox endpoint](#)
  - [Mapping the inputs of the Activity](#)

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## Creating, selecting, or editing a Dropbox endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** Add the Preview File Activity in the orchestration

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[Feedback](#) | [Notices](#)

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## Mapping the inputs of the Activity

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1.

**Parent topic:** Add the Preview File Activity in the orchestration

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## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Preview File Activity

Name	Type	Required	Description
path	String	Yes	The absolute path to the file you want to preview.

rev	string	No	The revision of the file to retrieve. This defaults to the most recent revision.
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- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Dropbox Orchestration](#)

**Parent topic:** [Activity: Preview File](#)

[Feedback](#) | [Notices](#)

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## Mapping the outputs of the Activity

Create a map between the Dropbox output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
data	string	Yes	Data that represents a preview of the file.
path	string	yes	Path of the file
content_type	boolean	yes	The Content-Type header will be either application/pdf or text/html. There is a Original-Content-Length header which contains the size of the preview data.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Note about Deploying a Dropbox Orchestration

The project for Dropbox connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Dropbox activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Activity: Restore File Revision

Restores a file path to a previous revision. Unlike downloading a file at a given revision and then re-uploading it, this call is atomic. It also saves a bunch of bandwidth.

- [Add the Restore File Revision Activity in the orchestration:](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Dropbox Activities](#)

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## Add the Restore File Revision Activity in the orchestration:

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Dropbox folder.
3. Drag the Dropbox "Restore File Revision" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Dropbox endpoint](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Restore File Revision](#)

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## Creating, selecting, or editing a Dropbox endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Restore File Revision Activity in the orchestration:](#)

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## Mapping the inputs of the Activity

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1.

**Parent topic:** [Add the Restore File Revision Activity in the orchestration](#):

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## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Restore File Revision Activity

Name	Type	Required	Description
path	String	Yes	The path to the file.
rev	string	Yes	The revision of the file to restore. Required field
locale	string	yes	The metadata returned will have its size field translated based on the given locale.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Dropbox Orchestration](#)

**Parent topic:** [Activity: Restore File Revision](#)

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## Mapping the outputs of the Activity

---

Create a map between the Dropbox output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Type	Required	Description
revision	integer	No	A deprecated field that semi-uniquely identifies a file. Use rev instead.

bytes	integer	yes	The file size in bytes.
thumboo_lean	bool	yes	True if the file is an image that can be converted to a thumbnail via the /thumbnails call.
revstring	string	yes	A unique identifier for the current revision of a file. This field is the same rev as elsewhere in the API and can be used to detect changes and avoid conflicts.
modified	string	yes	The last time the file was modified on Dropbox, in the standard date format (not included for the root folder).
mime_type	string	yes	The response type for example "application/pdf"
path	string	yes	Returns the canonical path to the file or folder.
is_dir	boolean	yes	Whether the given entry is a folder or not.
size	string	yes	A human-readable description of the file size (translated by locale).
root	string	yes	The root or top-level folder depending on your access level. All paths returned are relative to this root level. Permitted values are either dropbox or app_folder.
client_modification_time	string	yes	For files, this is the modification time set by the desktop client when the file was added to Dropbox, in the standard date format. Since this time is not verified (the Dropbox server stores whatever the desktop client sends up), this should only be used for display purposes (such as sorting) and not, for example, to determine if a file has changed or not.
icon	string	yes	The name of the icon used to illustrate the file type in Dropbox's icon library.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_mapping\\_the\\_outputs\\_of\\_the\\_act17.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_mapping_the_outputs_of_the_act17.html)

## Note about Deploying a Dropbox Orchestration

The project for Dropbox connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Dropbox activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox\\_Connector\\_note\\_about\\_deploying\\_a\\_dropbox16.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Dropbox_Connector_note_about_deploying_a_dropbox16.html)

## Eloqua Bulk API Activities

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- [Creating or editing an endpoint for Eloqua Bulk API activity](#)
- [Using the Eloqua Bulk API Create Import Definition activity](#)
- [Using the Eloqua Bulk API Create Export Definition activity](#)
- [Using the Eloqua Bulk API Get Import Definition activity](#)
- [Using the Eloqua Bulk API Push Data for Import activity](#)
- [Using the Eloqua Bulk API Synchronize Data activity](#)
- [Using the Eloqua Bulk API Get Synchronization Status Details activity](#)
- [Using the Eloqua Bulk API Get Export Definition activity](#)
- [Using the Eloqua Bulk API Get Data for Export Definition activity](#)
- [Using the Eloqua Bulk API Update Import Definition activity](#)
- [Using the Eloqua Bulk API Update Export Definition activity](#)
- [Using the Eloqua Bulk API Delete Import Definition activity](#)
- [Using the Eloqua Bulk API Delete Export Definition activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_eloqua\\_bulk\\_api.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_eloqua_bulk_api.html)

## Creating or editing an endpoint for Eloqua Bulk API activity

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Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to Eloqua platform. Eloqua Bulk API uses OAuth 2.0 authentication mechanism so as to authorize users to perform operations.

### Selecting or editing an Eloqua Bulk API endpoint

To select or edit an Eloqua Bulk API endpoint:

1. In the **Create Endpoint** or **Edit Endpoint** pane, configure the Eloqua Bulk API endpoint as described in the following table.

Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.

2. Click **Test Connection** to confirm that the connection details are valid and you are able to connect to the Eloqua Bulk API successfully.

3. Click **OK**.

*Table: Connection properties*

Field Name	Description
OAuth Access Token	OAuth access token generated from Eloqua Bulk API for authentication.
OAuth Refresh Token	OAuth refresh token generated from Eloqua Bulk API while generating OAuth Access token.

Application Client ID	The Client Identifier issued to the application during registration.
Application Client Secret	The Client Secret issued to the application during registration.
Application Redirect URL	The Redirect URL issued to the application during registration.

**Note:** To generate the access token, refer to the Oracle Eloqua Bulk API documentation relating to "OAuth2 Authentication Support in Eloqua Bulk REST API".

**Parent topic:** [Eloqua Bulk API Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Eloq\\_Blk\\_API\\_creating\\_or\\_editing\\_an\\_endpoin.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Eloq_Blk_API_creating_or_editing_an_endpoin.html)

## Using the Eloqua Bulk API Create Import Definition activity

Use the Create Import Definition activity to create an import definition in Eloqua.

Use this task to create an import definition in Eloqua. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Eloqua Bulk API Create Import Definition activity:

1. In an active orchestration, open the **Activities** tab and expand the **Eloqua Bulk API** folder contents.
2. Drag the **Create Import Definition** activity icon onto the orchestration. The Eloqua Bulk API Create Import Definition checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant Eloqua Bulk API endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. In the checklist, click **Configure**.
9. Click **Browse** to select the object type. The **Browse Eloqua Bulk API** window is displayed.
10. In **Browse Eloqua Bulk API**, you can either filter the object type by specifying the object type in the **Search for an object type** field, or select the object type from the object type list. Click **OK**. The object field preferences are displayed.
11. In **Object Field Preferences**, select the fields that you would like to map by selecting the corresponding field name check boxes.
12. In the checklist, click **Retry**. Review the default settings and make the required changes.
13. Select the **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Create Import Definition activity are displayed as nodes under the request input parameter in the **To Activity** panel.
14. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **name:** Name of the definition. Useful for reusing definitions.
- **identifierFieldName:** Specifies which field to use to match the imported data to existing Eloqua data.
- **fields:** It has following fields :
  - **sourceField:** It would be one of the column names from source data.
  - **EloquaDestinationField:** Eloqua column name to which sourceField data would map.

**Optional Fields:** The activity has following optional fields:

- **autoDeleteDuration:** Time until the definition is deleted.
- **dataRetentionDuration:** Time until the staged data is deleted.
- **isUpdatingMultipleMatchedRecords:** Specifies whether Eloqua should update multiple records if multiple records match the identifierFieldName.
- **updateRule:** The following rule types are available:
  - **always:** Always update.

- **ifNewIsNotNull:** Update if the new value is not blank.
- **ifExistingIsNull:** Update if the existing value is blank.
- **useFieldRule:** Use the rule defined at the field level.
- **syncActions:** Specifies additional operations to perform during the import. It has following fields :
  - **action:** It specifies what action to perform. The action can be add, remove, or setStatus.
  - **destination:** It specifies where the action should take place. For add or remove actions, this would be the URI of a list or email group. For setStatus, it might be the URI of an AppCloud Action or Decision service.
  - **status:** Specifies to what the status should be set for a setStatus action. The following status is available: subscribed, unsubscribed, active, complete, pending, errored, yes, and no.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

You have configured the Eloqua Bulk API Create Import Definition activity.

**Parent topic:** [Eloqua Bulk API Activities](#)

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## Using the Eloqua Bulk API Create Export Definition activity

Use the Create Export Definition activity to create an export definition in Eloqua.

Use this task to create an export definition. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Eloqua Bulk API Create Export Definition activity:

1. In an active orchestration, open the **Activities** tab and expand the **Eloqua Bulk API** folder contents.
2. Drag the **Create Export Definition** activity icon onto the orchestration. The Eloqua Bulk API Create Export Definition checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant Eloqua Bulk API endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. In the checklist, click **Configure**.
9. Click **Browse** to select the object type. The **Browse Eloqua Bulk API** window is displayed.
10. In **Browse Eloqua Bulk API**, you can either filter the object type by specifying the object type in the **Search for an object type** field, or select the object type from the object type list. Click **OK**. The object field preferences are displayed.
11. In **Object Field Preferences**, select the fields that you would like to map by selecting the corresponding field name check boxes.
12. In the checklist, click **Retry**. Review the default settings and make the required changes.
13. Select the **Map Inputs** in the checklist. The XML schemas generated from the selected object of Create Export Definition activity are displayed as nodes under the request input parameter in the **To Activity** panel.
14. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **name:** Name of the definition. Useful for reusing definitions.

- **fields:** It has following fields:
  - **sourceField:** It would be one of the column names from source data.
  - **EloquaDestinationField:** Eloqua column name to which sourceField data would map.

**Optional Fields:** The activity has following optional fields:

- **autoDeleteDuration:** Time until the definition is deleted.
- **dataRetentionDuration:** Time until the staged data is deleted.
- **maxRecords:** Specifies the maximum number of records to export.
- **Filters:** Specifies query criteria used to filter . Filter use the comparison, logic, and existence operators to filter import data based on Eloqua field values. It has following fields:
  - **Filter:** It allows creating filter statements by using the following options:
    - **ename:** It is used to select the data that you want to export.
    - **operator:** It is used to specify a condition.
    - **value:** Value for filter.
  - **AdditionalFilters:** This is used to add more than one filter.
    - **Operator:** The Eloqua Bulk API also supports complex filters that filter based on multiple criteria using the AND, OR, and NOT operators.
    - **Filter:** Use same parameters as defined in the **Filter** section.
- **syncActions:** It specifies additional operations to perform during the export. It has following fields :
  - **action:** It specifies what action to perform. The action can be add, remove, or setStatus.
  - **destination:** It specifies where the action should take place. For add or remove actions, this would be the URI of a list or email group. For setStatus, it might be the URI of an AppCloud Action or Decision service.
  - **status:** Specifies to what the status should be set for a setStatus action. The following status is available:
    - subscribed
    - unsubscribed
    - active
    - complete
    - pending
    - errored
    - yes
    - no

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

You have configured the Eloqua Bulk API Create Export Definition activity.

**Parent topic:** [Eloqua Bulk API Activities](#)

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## Using the Eloqua Bulk API Get Import Definition activity

Use the Get Import Definition activity to retrieve all import definitions from Eloqua.

Use this task to retrieve all import definitions from Eloqua. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Eloqua Bulk API Get Import Definition activity:

1. In an active orchestration, open the **Activities** tab and expand the **Eloqua Bulk API** folder contents.
2. Drag the **Get Import Definition** activity icon onto the orchestration. The Eloqua Bulk API Get Import Definition checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant Eloqua Bulk API endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. In the checklist, click **Configure**.
9. Click **Browse** to select the object type. The **Browse Eloqua Bulk API** window is displayed.
10. In **Browse Eloqua Bulk API**, you can either filter the object type by specifying the object type in the **Search for an object type** field, or select the object type from the object type list. Click **OK**. The object field preferences are displayed.
11. In **Object Field Preferences**, select the fields that you would like to map by selecting the corresponding field name check boxes.
12. In the checklist, click **Retry**. Review the default settings and make the required changes.
13. Select the **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Get Import Definition activity are displayed as nodes under the request input parameter in the **To Activity** panel.
14. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has the following mandatory field:

- **selectionType:** Following options are available to retrieve Import Definitions:
  - SPECIFIC\_ID
  - ALL\_IDs

**Optional Fields:** The activity has following optional fields:

- **id:** The ID of the Import Definition to retrieve.

Note: ID becomes mandatory when you select SPECIFIC\_ID in selectionType.

- **limit:** Specifies maximum number of records to return.
- **offset:** Specifies an offset that allows to retrieves the next batch of records.
- **order:** Ordering options available are:
  - Ascending
  - Descending
- **orderBy:** Following ordering options are available to order the records:
  - uri
  - id
  - name
  - dataRetentionDuration
  - maxRecords
  - autoDeleteDuration
  - kbUsed
  - createdBy
  - createdAt
  - updatedBy
  - updatedAt
- **Filters:** Specifies query criteria used to filter . Filter uses the comparison, logic, and existence operators to filter import data based on Eloqua field values. It has following fields:
  - **Filter:** It allows creating filter statements by using the following options:
    - elename: It is used to select the data that you want to import.
    - operator: It is used to specify a condition.
    - value: Value for filter.
  - **AdditionalFilters:** This is used to add more than one filter by using the following options:
    - Operator: The Eloqua Bulk API also supports complex filters, that filter based on multiple criteria using the AND, OR, and NOT operators.
    - Filter: Use same parameters as defined in **Filter** section.
- **Note:** Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

You have configured the Eloqua Bulk API Get Import Definition activity.

**Parent topic:** [Eloqua Bulk API Activities](#)

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## Using the Eloqua Bulk API Push Data for Import activity

---

Use the Push Data for Import activity to submit the data for existing Import definition into staging area of Eloqua system.

Use this task to submit the data for existing Import definition into staging area of Eloqua system. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Eloqua Bulk API Push Data for Import activity:

1. In an active orchestration, open the **Activities** tab and expand the **Eloqua Bulk API** folder contents.
2. Drag the **Push Data for Import** activity icon onto the orchestration. The Eloqua Bulk API Push Data for Import checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant Eloqua Bulk API endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. In the checklist, click **Configure**.
9. Click **Browse** to select the object type. The **Browse Eloqua Bulk API** window is displayed.
10. In **Browse Eloqua Bulk API**, you can either filter the object type by specifying the object type in the **Search for an object type** field, or select the object type from the object type list. Click **OK**. The object field preferences are displayed.
11. In **Object Field Preferences**, select the fields that you would like to map by selecting the corresponding field name check boxes.
12. In the checklist, click **Retry**. Review the default settings and make the required changes.
13. Select the **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Push Data for Import activity are displayed as nodes under the request input parameter in the **To Activity** panel.
14. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **id:** The ID of the definition.
- **inputType:** Select type of the data source. Eloqua Bulk API supports two data types for input:
  - JSON
  - CSV

**Optional Fields:** The activity has the following optional field:

- **ImportData:** The data which is used to import into Eloqua system.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.

2. Create a map between the output parameters and orchestration variables.

You have configured the Eloqua Bulk API Push Data for Import activity.

**Parent topic:** [Eloqua Bulk API Activities](#)

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## Using the Eloqua Bulk API Synchronize Data activity

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Use the Synchronize Data activity to trigger synchronization on the import or export operation.

Use this task to trigger synchronization on the import or export operation. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Eloqua Bulk API Synchronize Data activity:

1. In an active orchestration, open the **Activities** tab and expand the **Eloqua Bulk API** folder contents.
2. Drag the **Synchronize Data** activity icon onto the orchestration. The Eloqua Bulk API Synchronize Data checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant Eloqua Bulk API endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. In the checklist, click **Configure**.
9. Click **Browse** to select the object type. The **Browse Eloqua Bulk API** window is displayed.
10. In **Browse Eloqua Bulk API**, you can either filter the object type by specifying the object type in the **Search for an object type** field, or select the object type from the object type list. Click **OK**. The object field preferences are displayed.
11. In **Object Field Preferences**, select the fields that you would like to map by selecting the corresponding field name check boxes.
12. In the checklist, click **Retry**. Review the default settings and make the required changes.
13. Select the **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Synchronize Data activity are displayed as nodes under the request input parameter in the **To Activity** panel.
14. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **id:** ID of the existing import or export definition.
- **operationType:** Following operation types are available to Sync:
  - Import: It sends data from staging area into Eloqua system.
  - Export: It sends data from Eloqua system into staging area.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

You have configured the Eloqua Bulk API Synchronize Data activity.

**Parent topic:** [Eloqua Bulk API Activities](#)

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## Using the Eloqua Bulk API Get Synchronization Status Details activity

Use the Get Synchronization Status Details activity to retrieve the synchronization logs and error details from Eloqua.

Use this task to retrieve the synchronization status along with logs and rejected record details. Sync log retrieves the logs for the specified sync and rejected logs retrieves raw data about validation failures during the specified sync action. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Eloqua Bulk API Get Synchronization Status Details activity:

1. In an active orchestration, open the **Activities** tab and expand the **Eloqua Bulk API** folder contents.
2. Drag the **Get Synchronization Status Details** activity icon onto the orchestration. Select the activity. The Eloqua Bulk API Get Synchronization Status Details checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant Eloqua Bulk API endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select the **Map Inputs** in the checklist. The XML schemas generated from the selected object of Get Synchronization Status Details activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has the following mandatory field:

- **selectionType:** Following options are available to retrieve status detail of Import/Export definitions.
  - SPECIFIC\_ID
  - ALL\_IDS

**Optional Fields:** The activity has following optional fields:

- **id:** The ID of the Import/Export Definition.

Note: ID becomes mandatory if you select SPECIFIC\_ID in selectionType.

- **showlogs:** It is used to retrieve logs. Valid terms are: True, False.
- **showRejectedRecords:** It is used to retrieve rejected records. Valid terms are: True, False.
- **limit:** Specifies maximum number of records to return.
- **offset:** Specifies an offset that allows to retrieves the next batch of records.
- **order:** Ordering options available are:
  - Ascending
  - Descending
- **orderBy:** Following ordering options are available to order the records:
  - uri
  - id
  - name
  - dataRetentionDuration
  - maxRecords
  - autoDeleteDuration
  - kbUsed
  - createdBy
  - createdAt
  - updatedBy
  - updatedAt

- **Filters:** Specifies query criteria used to filter . Filter use the comparison, logic, and existence operators to filter import data based on Eloqua field values. It has following fields:
- **Filter:** It allows creating filter statements by using the following options:
  - - **ename:** It is used to select the data that you want to retrieve.
    - **operator:** It is used to specify a condition.
    - **value:** Value for filter.
  - **AdditionalFilters:** This is used to add more than one filter by using the following options:
    - **Operator:** The Eloqua Bulk API also supports complex filters that filter based on multiple criteria using the AND, OR, and NOT operators.
    - **Filter:** Use same parameters as defined in the **Filter** section.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

You have configured the Eloqua Bulk API Get Synchronization Status Details activity.

**Parent topic:** [Eloqua Bulk API Activities](#)

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## Using the Eloqua Bulk API Get Export Definition activity

Use the Get Export Definition activity to retrieve all export definitions from Eloqua.

Use this task to retrieve all export definitions from Eloqua. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Eloqua Bulk API Get Export Definition activity:

1. In an active orchestration, open the **Activities** tab and expand the **Eloqua Bulk API** folder contents.
2. Drag the **Get Export Definition** activity icon onto the orchestration. The Eloqua Bulk API Get Export Definition checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant Eloqua Bulk API endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. In the checklist, click **Configure**.
9. Click **Browse** to select the object type. The **Browse Eloqua Bulk API** window is displayed.
10. In **Browse Eloqua Bulk API**, you can either filter the object type by specifying the object type in the **Search for an object type** field, or select the object type from the object type list. Click **OK**. The object field preferences are displayed.
11. In **Object Field Preferences**, select the fields that you would like to map by selecting the corresponding field name check boxes.
12. In the checklist, click **Retry**. Review the default settings and make the required changes.
13. Select the **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Get Export Definition activity are displayed as nodes under the request input parameter in the **To Activity** panel.
14. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has the following mandatory field:

- **selectionType:** It is used to retrieve Export Definitions. Available terms: SPECIFIC\_ID, ALL\_IDS.

**Optional Fields:** The activity has following optional fields:

- **id:** The ID of the Export Definition to retrieve.

Note: ID becomes mandatory when you select SPECIFIC\_ID in selectionType.

- **limit:** Specifies maximum number of records to return.
- **offset:** Specifies an offset that allows to retrieves the next batch of records.
- **order:** Term to be ordered in Ascending or Descending order.
- **orderBy:** Term to be ordered based on: uri, id, name, dataRetentionDuration, maxRecords, autoDeleteDuration, kbUsed, createdBy, createdAt, updatedBy, and updatedAt.
- **Filters:** Specifies query criteria used to filter . Filter uses the comparison, logic, and existence operators to filter import data based on Eloqua field values. It has following fields:
  - **Filter:** It allows creating filter statements by using the following options:
    - **ename:** It is used to select the data that you want to retrieve.
    - **operator:** It is used to specify a condition.
    - **value:** Value for filter.
  - **AdditionalFilters:** This is used to add more than one filter.
    - **Operator:** The Eloqua Bulk API also supports complex filters that filter based on multiple criteria using the AND, OR, and NOT operators.
    - **Filter:** Use same parameters as defined in the **Filter** section.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

You have configured the Eloqua Bulk API Get Export Definition activity.

**Parent topic:** [Eloqua Bulk API Activities](#)

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## Using the Eloqua Bulk API Get Data for Export Definition activity

---

Use the Get Data for Export Definition activity to retrieve the data corresponding to a particular export definition in Eloqua.

Use this task to retrieve the data corresponding to a particular export definition. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Eloqua Bulk API Get Data for Export Definition activity:

1. In an active orchestration, open the **Activities** tab and expand the **Eloqua Bulk API** folder contents.
2. Drag the **Get Data for Export Definition** activity icon onto the orchestration. The Eloqua Bulk API Get Data for Export Definition checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant Eloqua Bulk API endpoint.

7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. In the checklist, click **Configure**.
9. Click **Browse** to select the object type. The **Browse Eloqua Bulk API** window is displayed.
10. In **Browse Eloqua Bulk API**, you can either filter the object type by specifying the object type in the **Search for an object type** field, or select the object type from the object type list. Click **OK**. The object field preferences are displayed.
11. In **Object Field Preferences**, select the fields that you would like to map by selecting the corresponding field name check boxes.
12. In the checklist, click **Retry**. Review the default settings and make the required changes.
13. Select the **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Get Data for Export Definition activity are displayed as nodes under the request input parameter in the **To Activity** panel.
14. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has the following mandatory field:

- **id:** Retrieves the data for the particular definition with the specified ID.

**Optional Fields:** The activity has following optional fields:

- **dataFormat:** It is used to retrieve the data in selected format. Eloqua Bulk API supports two data formats:
- **JSON:** It is used to retrieve data in JSON format.
- **CSV:** It is used to retrieve data in CSV format.

Note: In both cases, (JSON/ CSV) exported data is encoded Base64 string.

- **limit:** Specifies maximum number of records to return.
- **offset:** Specifies an offset that allows to retrieves the next batch of records.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

You have configured the Eloqua Bulk API Get Data for Export Definition activity.

**Parent topic:** [Eloqua Bulk API Activities](#)

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## Using the Eloqua Bulk API Update Import Definition activity

Use the Update Import Definition activity to update import definition in Eloqua.

Use this task to update import definition in Eloqua. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Eloqua Bulk API Update Import Definition activity:

1. In an active orchestration, open the **Activities** tab and expand the **Eloqua Bulk API** folder contents.
2. Drag the **Update Import Definition** activity icon onto the orchestration. The Eloqua Bulk API Update Import Definition checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.

6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant Eloqua Bulk API endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. In the checklist, click **Configure**.
9. Click **Browse** to select the object type. The **Browse Eloqua Bulk API** window is displayed.
10. In **Browse Eloqua Bulk API**, you can either filter the object type by specifying the object type in the **Search for an object type** field, or select the object type from the object type list. Click **OK**. The object field preferences are displayed.
11. In **Object Field Preferences**, select the fields that you would like to map by selecting the corresponding field name check boxes.
12. In the checklist, click **Retry**. Review the default settings and make the required changes.
13. Select the **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Update Import Definition activity are displayed as nodes under the request input parameter in the **To Activity** panel.
14. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **id:** The ID of the existing import definition.
- **name:** Name of the definition.
- **identifierFieldName:** Specifies which field to use to match the imported data to existing Eloqua data.
- **fields:** It has following fields :
  - **sourceField:** It would be one of the column names from source data.
  - **EloquaDestinationField:** Eloqua column name to which sourceField data would map.

**Optional Fields:** The activity has following optional fields:

- **autoDeleteDuration:** Time until the definition is deleted.
- **dataRetentionDuration:** Time until the staged data is deleted.
- **isUpdatingMultipleMatchedRecords:** Specifies whether Eloqua should update multiple records if multiple records match the identifierFieldName.
- **updateRule:** The following rule types are available:
  - **always:** Always update.
  - **ifNewIsNotNull:** Update if the new value is not blank.
  - **ifExistingIsNull:** Update if the existing value is blank.
  - **useFieldRule:** Use the rule defined at the field level.
- **syncActions:** Specifies additional operations to perform during the import. It has following fields:
  - **action:** It specifies what action to perform. The action can be add, remove, or setStatus.
  - **destination:** It specifies where the action should take place. For add or remove actions, this would be the URI of a list or email group. For setStatus, it might be the URI of an AppCloud Action or Decision service.
  - **status:** Specifies to what the status should be set for a setStatus action. The following status is available:
    - subscribed
    - unsubscribed
    - active
    - complete
    - pending
    - errored
    - yes
    - no

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

You have configured the Eloqua Bulk API Update Import Definition activity.

**Parent topic:** [Eloqua Bulk API Activities](#)

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## Using the Eloqua Bulk API Update Export Definition activity

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Use the Update Export Definition activity to Update export definition in Eloqua.

Use this task to update export definition in Eloqua. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Eloqua Bulk API Update Export Definition activity:

1. In an active orchestration, open the **Activities** tab and expand the **Eloqua Bulk API** folder contents.
2. Drag the **Update Export Definition** activity icon onto the orchestration. The Eloqua Bulk API Update Export Definition checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant **Eloqua Bulk API** endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. In the checklist, click **Configure**.
9. Click **Browse** to select the object type. The **Browse Eloqua Bulk API** window is displayed.
10. In **Browse Eloqua Bulk API**, you can either filter the object type by specifying the object type in the **Search for an object type** field, or select the object type from the object type list. Click **OK**. The object field preferences are displayed.
11. In **Object Field Preferences**, select the fields that you would like to map by selecting the corresponding field name check boxes.
12. In the checklist, click **Retry**. Review the default settings and make the required changes.
13. Select the **Map Inputs** in the checklist. The XML schemas generated from the selected object of Update Export Definition activity are displayed as nodes under the request input parameter in the **To Activity** panel.
14. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **id:** The ID of the existing export definition.
- **name:** Name of the definition.
- **fields:** It has following fields :
  - **sourceField:** It would be one of the column names from source data.
  - **EloquaDestinationField:** Eloqua column name to which sourceField data would map.

**Optional Fields:** The activity has following optional fields:

- **autoDeleteDuration:** Time until the definition is deleted.
- **dataRetentionDuration:** Time until the staged data is deleted.
- **maxRecords:** Specifies the maximum number of records to export.
- **Filters:** Specifies query criteria used to filter . Filter use the comparison, logic, and existence operators to filter import data based on Eloqua field values. It has following fields:
  - **Filter:** It used to create filter statements.
    - **ename:** It is used to select the data that you want to export.
    - **operator:** It is used to specify a condition.
    - **value:** Value for filter.
  - **AdditionalFilters:** This is used to add more than one filter.
    - **Operator:** The Eloqua Bulk API also supports complex filters that filter based on multiple criteria using the AND, OR, and NOT operators.
    - **Filter:** Use same parameters as defined in the **Filter** section.
- **syncActions:** It specifies additional operations to perform during the export. It has following fields :
  - **action:** It specifies what action to perform. The action can be add, remove, or setStatus.
  - **destination:** It specifies where the action should take place. For add or remove actions, this would be the URI of a list or email group. For setStatus, it might be the URI of an AppCloud Action or Decision service.
  - **status:** Specifies to what the status should be set for a setStatus action. The following status is available:
- **subscribed**

- unsubscribed
- active
- complete
- pending
- errored
- yes
- no

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

You have configured the Eloqua Bulk API Update Export Definition activity.

**Parent topic:** [Eloqua Bulk API Activities](#)

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## Using the Eloqua Bulk API Delete Import Definition activity

Use the Delete Import Definition activity to delete an import definition in Eloqua.

Use this task to delete an import definition in Eloqua. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Eloqua Bulk API Delete Import Definition activity:

1. In an active orchestration, open the **Activities** tab and expand the **Eloqua Bulk API** folder contents.
2. Drag the **Delete Import Definition** activity icon onto the orchestration. The Eloqua Bulk API Delete Import Definition checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant Eloqua Bulk API endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. In the checklist, click **Configure**.
9. Click **Browse** to select the object type. The **Browse Eloqua Bulk API** window is displayed.
10. In **Browse Eloqua Bulk API**, you can either filter the object type by specifying the object type in the **Search for an object type** field, or select the object type from the object type list. Click **OK**. The object field preferences are displayed.
11. In **Object Field Preferences**, select the fields that you would like to map by selecting the corresponding field name check boxes.
12. In the checklist, click **Retry**. Review the default settings and make the required changes.
13. Select the **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Delete Import Definition activity are displayed as nodes under the request input parameter in the **To Activity** panel.
14. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has the following mandatory field:

- **id:** The ID of the import definition that you want to delete.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

You have configured the Eloqua Bulk API Delete Import Definition activity.

**Parent topic:** [Eloqua Bulk API Activities](#)

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## Using the Eloqua Bulk API Delete Export Definition activity

---

Use the Delete Export Definition activity to delete an export definition in Eloqua.

Use this task to delete an export definition in Eloqua. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Eloqua Bulk API Delete Export Definition activity:

1. In an active orchestration, open the **Activities** tab and expand the **Eloqua Bulk API** folder contents.
2. Drag the **Delete Export Definition** activity icon onto the orchestration. The Eloqua Bulk API Delete Export Definition checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant Eloqua Bulk API endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. In the checklist, click **Configure**.
9. Click **Browse** to select the object type. The **Browse Eloqua Bulk API** window is displayed.
10. In **Browse Eloqua Bulk API**, you can either filter the object type by specifying the object type in the **Search for an object type** field, or select the object type from the object type list. Click **OK**. The object field preferences are displayed.
11. In **Object Field Preferences**, select the fields that you would like to map by selecting the corresponding field name check boxes.
12. In the checklist, click **Retry**. Review the default settings and make the required changes.
13. Select the **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Delete Export Definition activity are displayed as nodes under the request input parameter in the **To Activity** panel.
14. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has the following mandatory field:

- **id:** The ID of the export definition that you want to delete.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

You have configured the Eloqua Bulk API Delete Export Definition activity.

**Parent topic:** [Eloqua Bulk API Activities](#)

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## Eloqua ReST API Activities

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- [Overview of Eloqua ReST API Connector](#)
- [Creating or editing an endpoint for Eloqua ReST API activity](#)  
Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to Eloqua platform. Eloqua ReST API uses OAuth 2.0 authentication mechanism so as to authorize users to perform operations.
- [Using the Eloqua ReST API Create activity](#)  
Use the Create activity to create an Account, Campaign, Contact, Contact List, Contact Segment and Custom Object Data in Eloqua.
- [Using the Eloqua ReST API Delete activity](#)  
Use the Delete activity to delete an Account, Campaign, Contact, Contact List and Contact Segment in Eloqua.
- [Using the Eloqua ReST API Retrieve activity](#)  
Use the Retrieve activity to retrieve an Account, Campaign, Contact, Contact List, Contact Segment and Custom Object Data in Eloqua.
- [Using the Eloqua ReST API Update activity](#)  
Use the Update activity to update an Account, Campaign, Contact, Contact List and Contact Segment in Eloqua.

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## Overview of Eloqua ReST API Connector

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Eloqua is a marketing automation SaaS company which develops automated marketing and demand generation software and services for business-to-business marketers to improve the quality and quantity of customers' sales leads and streamline their sales processes. Eloqua automates, executes, and measures key marketing and lead management processes along every step of the sales funnel — from lead generation to close. The Eloqua platform is based on a Service-Oriented Architecture (SOA), in which all objects can use Web Services to access bi-directional data-level integration.

IBM Cast Iron Connector for Eloqua uses the Direct Web Service APIs that are offered by Eloqua, which enables users to interact with the platform. The connector enables you to create, retrieve and modify various types of objects that are available on the platform.

You can perform the following activities using Eloqua ReST API connector:

- Outbound Activities:
  - Create
  - Retrieve
  - Update
  - Delete

The Eloqua ReST API version currently supported by this connector is 1.0.

**Parent topic:** [Eloqua ReST API Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Eloq\\_REST\\_API\\_Overview.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Eloq_REST_API_Overview.html)

## Creating or editing an endpoint for Eloqua ReST API activity

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Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to Eloqua platform. Eloqua ReST API uses OAuth 2.0 authentication mechanism so as to authorize users to perform operations.

### Selecting or editing an Eloqua ReST API endpoint

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To select or edit an Eloqua ReST API endpoint:

1. In the Create Endpoint or Edit Endpoint pane, configure the Eloqua ReST API endpoint as described in the following table.  
Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.
2. Click Test Connection to confirm that the connection details are valid and you are able to connect to the Eloqua ReST API successfully.
3. Click OK.

Table 1. Connection properties

Field Name	Description
Login URL	Login URL to connect with Eloqua endpoint.
OAuth Access Token	OAuth access token generated from Eloqua ReST API for authentication.
OAuth Refresh Token	OAuth refresh token generated from Eloqua ReST API while generating OAuth Access token.
Application Client ID	The Client Identifier issued to the application during registration.
Application Client Secret	The Client Secret issued to the application during registration.
Application Redirect URL	The Redirect URL issued to the application during registration.

Note:

- To generate the access token, refer to the [Oracle Eloqua ReST API documentation](#) relating to "OAuth2 Authentication Support in Eloqua ReST API".
- The Login URL has default value as `https://login.eloqua.com/id`. It is editable and the URL format is `https://<host>:<port>/id` - You can change the host, port and protocol (http/https) as needed if not using the default.
- In the Map Input section of each activity, relevant fields of endpoint panel are available to override at runtime. You can provide data to various groups of parameters like Proxy Details, Connection Details or Authentication Details to override. Providing only partial field data in a selected group is not allowed to override.

### Objects Supported by the Eloqua ReST API Connector

---

Eloqua ReST API connector supports the following Eloqua objects:

Table 2. Operations supported by the Eloqua objects

Eloqua Objects	Create	Retrieve	Update	Delete
Accounts	Yes	Yes	Yes	Yes
Campaigns	Yes	Yes	Yes	Yes
Contacts	Yes	Yes	Yes	Yes
Contact Lists	Yes	Yes	Yes	Yes
Contact Segments	Yes	Yes	Yes	Yes

Eloqua Objects	Create	Retrieve	Update	Delete
Custom Object Data	Yes	Yes		

## Custom Objects/Custom Fields Support

---

Eloqua supports most of the special characters in the Name for the Custom Objects or its Fields. However, since the connector uses XML based input/output, only those Custom Objects would be supported whose names/fields contain following specific special characters:

- . (Dot)
- - (Hyphen)
- \_ (Underscore)
- Space “ in case of space it will be replaced by double underscore.

Note:

- Eloqua ReST API Connector supports Custom objects/fields if names begin with a letter (alphabet) and can be followed by alphanumeric characters or followed by specific special characters Dot (.), Hyphen(-), Underscore(\_), and Space (.). Custom Objects having any other special characters in name/fields would be skipped in the Connector.
- Eloqua ReST API Connector does not support Custom objects if their object/field names contains two consecutive underscore.

**Parent topic:** [Eloqua ReST API Activities](#)

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## Using the Eloqua ReST API Create activity

---

Use the Create activity to create an Account, Campaign, Contact, Contact List, Contact Segment and Custom Object Data in Eloqua.

### About this task

---

Use this task to create objects in the Eloqua. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Eloqua REST API folder contents.
2. Drag the Create activity icon onto the orchestration. Select the activity. The Eloqua REST API Create Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Eloqua REST API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse Eloqua REST API window is displayed.
11. In Browse Eloqua REST API, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes.

14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Create Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Eloqua REST Create Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the eObject field in the object in the To Activity pane of Map Inputs, and select Expand Occurrences.

**Parent topic:** [Eloqua ReST API Activities](#)

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## Using the Eloqua ReST API Delete activity

---

Use the Delete activity to delete an Account, Campaign, Contact, Contact List and Contact Segment in Eloqua.

### About this task

---

Use this task to Delete objects in the Eloqua ReST instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Eloqua REST API folder contents.
2. Drag the Delete activity icon onto the orchestration. The Eloqua REST API Delete Object Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Eloqua REST API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse Eloqua REST API window is displayed.
11. In Browse Eloqua REST API, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes.
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Update Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Eloqua REST Delete Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the eObject in the To Activity pane of Map Inputs, and select Expand Occurrences.

**Parent topic:** [Eloqua ReST API Activities](#)

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## Using the Eloqua ReST API Retrieve activity

---

Use the Retrieve activity to retrieve an Account, Campaign, Contact, Contact List, Contact Segment and Custom Object Data in Eloqua.

### About this task

---

Use this task to retrieve all objects based on ID in the Eloqua REST instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Eloqua REST API folder contents.
2. Drag the Retrieve activity icon onto the orchestration. Select the activity. The Eloqua REST API Retrieve Object Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Eloqua REST API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse Eloqua REST API window is displayed.
11. In Browse Eloqua REST API, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes.
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Retrieve Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a

mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.

### Input XML

In the input XML of the Eloqua REST Retrieve Object, two options are provided to the user:

- **RetrieveAll** - It is a Boolean field. If the user wants to fetch all the records of a particular object type, then he should set this parameter as `true`.
- **ID** - If the user sets the RetrieveAll value as `false`, then the user must specify the ID of the record to be fetched. This ID is passed in the ID field. The user can provide multiple IDs to be fetched.  
Note: RetrieveAll and ID are not applicable for Custom object retrieve. If the user wants to fetch custom object then he/she should provide value in at least one of the searchURL parameters.

Table 1. URL parameters for Retrieve

Field Name	Description
depth	The REST API can retrieve entities at three different levels of depth "Complete", "Minimal", and "Partial".
count	Maximum number of entities to return. The value can be any whole number between 1 and 1000.
page	Specifies which page of entities to return, and can be any positive whole number. The Count parameter determines the size (number of results) per page.
orderBy	Specifies the name of the property to order the results by, The orderBy format is ASC   DESC.
lastUpdatedAt	Filter the result based on the lastUpdatedAt value.
id	Identifier for the entity on which to perform the operation. This value is actually part of the base URL, and not a URL parameter.
Search	Specifies the search criteria used to retrieve entities.
viewId	Filter the result based on the viewId value.

17. Create a map between the output parameters and orchestration variables.

## Results

You have configured the Eloqua REST API Retrieve Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the ID field in the object in the To Activity pane of Map Inputs, and select Expand Occurrences.

**Parent topic:** [Eloqua ReST API Activities](#)

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## Using the Eloqua ReST API Update activity

Use the Update activity to update an Account, Campaign, Contact, Contact List and Contact Segment in Eloqua.

### About this task

Use this task to update objects in the Eloqua ReST instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Eloqua REST API folder contents.
2. Drag the Update activity icon onto the orchestration. The Eloqua REST API Update Object Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Eloqua REST API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse Eloqua REST API window is displayed.
11. In Browse Eloqua REST API, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes.
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Update Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Eloqua REST Update Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the eObject in the To Activity pane of Map Inputs, and select Expand Occurrences.

**Parent topic:** [Eloqua ReST API Activities](#)

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## Email Activities

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- [Creating or editing an email endpoint](#)  
Studio and the Integration Appliance use the connection information that email endpoints provide to connect to POP3 or SMTP servers.
- [Get Email activity](#)  
The **Get Email** activity is a starter activity. When an orchestration that starts with an **Get Email** activity is deployed to the Integration Appliance, the Integration Appliance polls the POP3 server for email message or messages for the specified account at the specified interval.
- [Send Email activity](#)  
An orchestration that contains the **Send Email** activity is acting as an email client during run time.
- [Testing an SSL email connection](#)  
After creating an endpoint for an email server, you must import the CA certificate for the email server into Studio and then test

the SSL connection to the email server.

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## Creating or editing an email endpoint

---

Studio and the Integration Appliance use the connection information that email endpoints provide to connect to POP3 or SMTP servers.

Note: For some email systems, the POP3 server and the SMTP server can have the same name, for example: mail.acmecompany.com.

Note: *Email connector base library is changed from V7.5 and because of this user might see a difference in the way attachments were retrieved separately using ReadMime and other activities. User has to re verify the values obtained from the headers and use / map them appropriately if they see any difference in the output*

## Creating or editing an email endpoint

---

1. In the Create Endpoint or Edit Endpoint pane, configure the fields as described in the following table.

Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.

2. When complete, click Test Connection to confirm that you can connect to the POP3 or SMTP server. The **Get Email** activity connects to a POP3 server while the **Send Email** activity connects to a SMTP server.

3. Click OK.

Table 1.

Field Name	Description
Location	Â
Get Email From Server	<b>Get Email</b> activity - The <b>Get Email</b> From Server option is automatically selected for an email endpoint used with the <b>Get Email</b> activity. During run time, the <b>Get Email</b> activity gets email from the specified POP3 server.
Send Email To Server	<b>Send Email</b> activity - The <b>Send Email</b> To Server option is automatically selected for an endpoint used with the <b>Send Email</b> activity. During run time, the <b>Send Email</b> activity sends email to the specified SMTP server.
Host Name	<b>Get Email</b> activity - The Host Name or IP address for the POP3 server. <b>Send Email</b> activity - The Host Name or IP address for the SMTP server.
Port	Specify the port number to access the POP3 or SMTP Server. By default, the port for a POP3 server is 110. Â
Login	Â
User Name and Password not required	<b>Get Email</b> activity - This is option not available for an endpoint of a <b>Get Email</b> activity. You must specify a User Name and Password for an email endpoint used with the <b>Get Email</b> activity.  <b>Send Email</b> activity - Select this option if you want connect to the SMTP server using an anonymous login instead of a username and password. Â Select this option only if SMTP server supports anonymous logins (where a user account is not required).

Field Name	Description
Log In to the Server Using a User Name and Password	<p><b>Get Email</b> activity - This option is automatically selected for an email endpoint used with the <b>Get Email</b> activity. To connect to the POP3 server using a user account, you must enter values into the User Name and Password fields to specify the account used to connect to the POP3 Server.</p> <p><b>Send Email</b> activity - Select this option to connect to the SMTP server using a user account. If this option is selected, you must enter values into the User Name and Password fields for the account used to connect to the SMTP Server.</p>
User Name Â	<p><b>Get Email</b> activity - Enter the User Name for the account used to connect to the POP3 Server.</p> <p><b>Send Email</b> activity - Enter the User Name for the account used to connect to the SMTP Server.</p>
Password Â	<p><b>Get Email</b> activity - Enter the Password for the account used to connect to the POP3 Server.</p> <p><b>Send Email</b> activity - Enter the Password for the account used to connect to the SMTP Server.</p>
<b>Security</b>	Â
Normal Email	Specifies that email runs without SSL.
Email over SSL	Specifies that email runs with SSL. For more information, see <a href="#">Testing an SSL email connection</a> .
Implicit or Explicit	Implicit means that SSL is turned as soon as a connection is made. Explicit requires that the client issue a command to the server requesting that SSL be used.
Client Certificate Alias Name Â	Specifies the client alias used to access the trusted certificate in the keystore. Â Must be enabled for client authorization by the server. By default, when you select the Client Certificate Alias Name option, Studio provides the following name: Factory Supplied Identity. The alias name you specify in this field should match the value you created when creating the certificate in the keystore.

Field Name	Description
Additional Parameters	<p>Specifies additional parameters for SMTP processing. The following table lists the parameters:</p> <p>smtpNewConnEveryTime  <b>Default:</b> false  <b>Description:</b> Specifies creation of a new connection everytime. If set to true, does not use a connection pool</p> <p>smtpPoolMinConnections  <b>Default:</b> 1  <b>Description:</b> Connection pool option - Minimum Connections</p> <p>smtpPoolMaxConnections  <b>Default:</b> 25  <b>Description:</b> Connection pool option - Maximum Connections</p> <p>smtpPoolMaxIdleTime  <b>Default:</b> 7200  <b>Description:</b> Connection pool option - Maximum Idle Time  Â in seconds</p> <p>smtpPoolMaxWaitTime  <b>Default:</b> 300  <b>Description:</b> Connection pool option - Max Wait Time in seconds</p> <p>smtpPoolReclaimConnections  <b>Default:</b> 60  <b>Description:</b> Connection pool option - Reclaim Connections Time in seconds</p>
Â	<p>When using <b>Get Email</b>, choose a polling frequency so that the email server does not close the connection between polls (GetMail activity &gt; Delivery Rules). Some email servers will lock the account or not permit log in if there are frequent openings and closings of connections. Read your email providers documentation to ensure that you set the properties correctly for your email server. To enable a connection pool, you must first set <code>smtpNewConnEveryTime</code> to false, and then set the required connection pool properties.</p>
<b>Connection Timeout</b>	Â
Time out after ___ second(s)  when establishing a connection to the endpoint.	<p>Specifies the number of seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the endpoint and the time it takes for the endpoint to respond to the connection request. For email activities, the amount of time the Integration Appliance attempts to establish a connection to the SMTP or the POP3 server before timing out.</p> <p>A connection timeout is different from an activity timeout because an activity timeout occurs after the connection to the endpoint has already been established. An activity timeout specifies the amount of time in seconds before a timeout occurs between the activity invoking a request on an endpoint and the time it takes the endpoint to respond.</p> <p>You set the activity timeout in <b>Retry</b> task of the <a href="#">Get Email activity</a> or <a href="#">Send Email activity</a>.</p>

**Parent topic:** [Email Activities](#)

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## Get Email activity

The **Get Email** activity is a starter activity. When an orchestration that starts with an **Get Email** activity is deployed to the Integration Appliance, the Integration Appliance polls the POP3 server for email message or messages for the specified account at the specified interval.

Note: The Get Email activity requires the POP3 server to support the TOP and UIDL commands. While these are optional in the POP3 protocol, most servers will support these.

The polled POP3 server and email account is defined in the email endpoint associated with the **Get Email** activity.

During run time, the **Get Email** activity polls a POP3 server for incoming email messages of a particular email account, as shown in the following diagram.

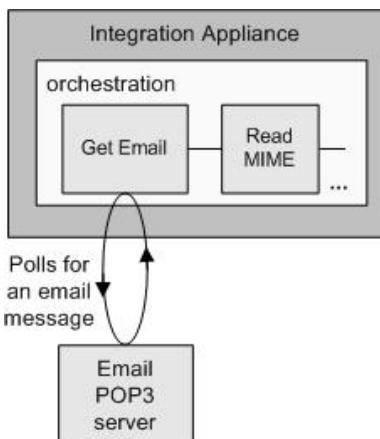


Figure 1.

If any email messages are found the following action occurs for each email message: The regular expression defined for the **Subject** field is checked against the subject of the incoming mail message and the regular expression defined for the **From** field is checked against the sender email account of the incoming mail message. If both regular expressions match, an orchestration job is created to process the email, and the mail is marked for deletion on POP3 Server. When the process is completed, the email is deleted from the POP3 server. For more information about regular expression matching, see the [Configuring the activity](#) procedure.

Note: Two **Get Email** activities should not poll from the same POP3 server at the same time using the same email account even if the regular expressions specified in the **Configure** task of the activity are different. If two **Get Email** activities are attempting to get email using the same email account, when the first **Get Email** activity process the email from the POP3 server and removes the email from the server, the second **Get Email** activity keeps retrying to retrieve the email from the POP3 server and the following exception may be thrown:

```
Protocol exception: com.jscape.inet.pop.PopException:  
Error in TOP 671 0: -ERR The requested message is no  
longer available; it may have been deleted.
```

## Accessing an email message attachment

To access the attachment of a incoming email message, you must add a **Read MIME** activity in the orchestration after the **Get Email** activity as shown in the preceding figure. In addition, you must map the two output parameters of the **Get Email** activity to variables in the orchestration and then map those variables to the input parameters of the **Read MIME** activity. During run time, the **Read MIME** activity reads the MIME Header and the body of the message and then breaks up the attachments contained in the body of the message and places the result into the parts XML output parameter. For more information, see **Read MIME Activity**.

## Adding a Get Email activity to the orchestration

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the **Activities** tab and expand the Email folder.
3. Drag the **Get Email** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed.

## Creating, selecting, or editing an email endpoint

1. Click Pick Endpoint task from the **Checklist** and choose from one of the following actions:
  - o Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK. Complete the [Configuring the activity](#) steps.
  - o Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The **Edit Endpoint** pane is displayed.
  - o Create a new endpoint: Select New. The **Create Endpoint** pane is displayed.
2. Create or edit an email endpoint. For more information, see [Creating or editing an email endpoint](#).

## Configuring the activity

---

1. Select the **Configure** task from the **Checklist**. The Configure pane is displayed.
2. Configure all the fields in this pane as described in the following table. In this task, you specify the regular expressions used to match against the Subject and From fields of polled email messages. A regular expression must be specified for both of these fields, even if the regular expression is equal to \*, which means that all strings match. In order for a incoming mail to be processed, both the Subject and the From strings of the mail must match their respective regular expressions. In each of the regular expression fields, the following wildcards are supported:
  - o \* (asterisk) - for zero or more characters
  - o ? (question mark) - for zero or one character

Table 1.

Field	Description
Subject matches	Enter a regular expression that matches the subjects of email messages that start an orchestration job to process the email message. In the regular expression, you can specify a combination of characters and wildcards.
From matches	Enter a regular expression defines the sender email address of the email messages that start an orchestration job to process the email message. In the regular expression, you can specify a combination of characters and wildcards.

The following table shows some example regular expressions and the result of matching the regular expressions to sample text.

Table 2.

Regular Expression	Sample Text	Result
*test*	test	matches
*test*	ttttesttt	matches
test	test	matches
test	ttttesttt	does not match, has to exactly match the regular expression string: test
test	est	does not match, has to exactly match the regular expression string: test
?est	test	matches
?est	best	matches
?est	est	matches

## Specifying the delivery rules

---

1. Select the **Delivery Rules** task from the **Checklist**. The Delivery Rules pane is displayed.
2. Specify the time interval to poll the POP3 server for new email messages:
  - a. Select a time unit from the menu: seconds, minutes, hours, or days.
  - b. Specify the amount of time using one of the following input options:
    - By clicking in the Poll for changes every field and entering a new value.
    - Using the up and down arrows.

For more information, see [Polling interval behavior](#).

## Specifying the retry options

---

1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.

2. Configure the retry options for connecting to a POP3 server. The following table defines the retry options for a connection to an POP3 server:

Table 3.

Field	Description
Retry	Â
1) Wait _____ second(s) between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the POP3 server.
2) Try to connect ____ times before failing.	<p>Specifies the retry count - the maximum number of times the Integration Appliance attempts to establish a connection to the POP3 server before issuing an error.</p> <p>If an orchestration that starts with a <b>Get Email</b> activity is deployed and the Integration Appliance cannot connect to the specified POP3 server, the Integration Appliance logs the connections errors as warnings in the system log until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system log, resets the connection error count to zero, and continues to attempt to establish a connection to the POP3 server.</p> <p>For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as Warnings. The Integration Appliance logs the fourth connection error as an error and resets the connection error count to zero. Therefore, the fifth connection error generates a warning in the system log. The Integration Appliance continues to attempt to establish a connection to the POP3 server.</p>

## Mapping the output of the activity

1. Select the **Map Outputs** task in the **Checklist**. The output parameters of the activity are displayed in the From Activity pane.
2. In this task, you map the **mailheader** (of type XML) and **body** (of type string) output parameters to variables. You must map the output parameters of the activity in order for the orchestration to be valid. See [Creating a map](#) for general instructions on mapping. The **mailheader** output parameter contains meta information about the email message, for example the email addresses that the message is being sent to and the MIME header of the message itself. The **body** output parameter contains the body of the email message and associated attachments.

CAUTION:

The order of the attachments and the body in the body output depend on the email client that sent the message and the type of message (plain text or HTML.).

Note: When using a non-English payload, the **mailheader**, **mimeHeader** and **otherheaders** need to be mapped into the orchestration in the **getEmail** activity, and mapped from the orchestration back into the **sendMail** activity.

**Parent topic:** [Email Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/email\\_get\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/email_get_activity.html)

## Send Email activity

An orchestration that contains the **Send Email** activity is acting as an email client during run time.

The **Send Email** activity connects to the SMTP server, and sends a message to the server as shown in the following figure.

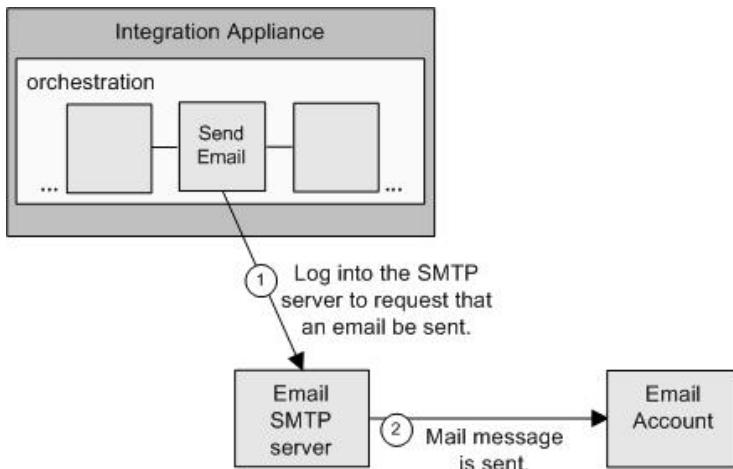


Figure 1.

The steps for adding and configuring a **Send Email** activity are described in the following procedures.

## Adding a Send Email activity to the orchestration

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the **Email** folder.
3. Drag the **Send Email** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed.

## Creating, selecting, or editing an email endpoint

1. Click Pick Endpoint task from the Checklist and choose from one of the following actions:
  - Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK. Complete the [Configuring the activity](#) steps.
  - Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint pane is displayed.
  - Create a new endpoint: Select New. The Create Endpoint pane is displayed.
2. Create or edit an email endpoint. For more information, see [Creating or editing an email endpoint](#).

## Configuring the activity

1. Select the **Configure** task from the **Checklist**. The Configure pane is displayed.
2. Configure all the fields in this pane as described in the following table:

Table 1.

Field	Description
From Address	Specifies the sender address for the email message. You must specify the email address using the standard email format: <code>email@domain.extension</code> . This field is required.
To	Specifies the recipient's addresses for the email message. You must specify the email addresses using the standard email format: <code>email@domain.extension</code> . One or more addresses can be specified. Separate the addresses with commas or semicolons. You must specify at least one address. This field is required.
CC	Specifies the carbon copy's addresses for the email message. You must specify the email addresses using the standard email format: <code>email@domain.extension</code> . One or more addresses can be specified. Separate the addresses with commas or semicolons. This field is optional.
Subject	Specifies the subject of the email message.

## Specifying the retry options

1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
2. Configure the retry options for connecting to an SMTP Server. The following table describes the retry options for connecting to an SMTP Server:

Table 2.

Field	Description
Retry	Â
1) Wait --- second(s) ) between each retry.	<p>Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the SMTP Server.</p>
2) Try to connect --- times before failing.	<p>Specifies the retry count - the maximum number of times the Integration Appliance attempts to establish a connection to the SMTP Server before issuing an error and stopping the processing of the current orchestration job.</p> <p>If you deploy an orchestration that contains an <b>Send Email</b> activity and the Integration Appliance cannot connect to the specified SMTP Server, the Integration Appliance logs the connections errors as warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system and orchestration logs and stops processing the current orchestration job.</p> <p>For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.</p>

Â

## Mapping the input of the activity

1. Select the **Map Inputs** task in the **Checklist**. The input parameters of the activity are displayed in the To Activity pane.
2. In this task, you map variables to the following input parameters of the activity:
  - o The **body** input parameter contains the body of the email message and associated attachments. The **body** input parameter is of type string. You must map a variable or assign a default value to the **body** input parameter.
  - o The optional **mailheader** input parameter contains meta information about the email message, for example the email addresses that the message is being sent to and the **mimeHeader** of the message itself. The **mailheader** input parameter is optional, you do not have to map a variable or assign default values to the **mailheader** input parameter.

If the optional **mailheader** input parameter is not listed in the To Activity pane of the Map Inputs pane, select Map > Show Optional Parameters from the toolbar menu or right-click in the To Activity pane and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click on a node in the Map Inputs pane to make this option active.

You can optionally override the settings you specified in the **Configure** task of the **Checklist** dynamically during run time by passing in values from variables into the nodes specified in the following table. For example during run time, you can override the setting for the From Address field by mapping a variable to the from node of the **mailheader** input parameter. During run time, the value of the variable is the from address in the sent email message.

Table 3.

Nodes of the mailheader Input Parameter	Description	Overrides what settings in the Configuring task? Â
from	<p>Specifies the sender address for the email message. You must specify the email address using the standard email format: <code>email@domain.extension</code>.</p>	The <b>from</b> node of the <b>mailheader</b> input parameter overrides the <b>From Address</b> field specified in the <b>Configure</b> task.

Nodes of the mailheader Input Parameter	Description	Overrides what settings in the Configuring task? Â
to	Specifies the recipient addresses for the email message. You must specify the email addresses using the standard email format: email@domain.extension. One or more addresses can be specified. Separate the addresses with commas or semicolons.	The <b>to</b> node of the <b>mailheader</b> input parameter overrides the <b>To</b> field specified in the <b>Configure</b> task.
cc	Specifies the carbon copy addresses for the email message. You must specify the email addresses using the standard email format: email@domain.extension. One or more addresses can be specified. Separate the addresses with commas or semicolons.	The <b>cc</b> node of the <b>mailheader</b> input parameter overrides the <b>CC</b> field specified in the <b>Configure</b> task.
subject	Specifies the subject of the email message.	The <b>subject</b> node of the <b>mailheader</b> input parameter overrides the <b>Subject</b> field specified in the <b>Configure</b> task.
mimeHeader	Specifies the MIME header of the email message.	None.
otherHeaders	Specifies an element that contains a set of MIME headers as name/value pairs not already specified in the <b>mimeHeader</b> node. For example the MIME header: Content-Location is not specified in the MIME header, so the following headerItem node could be equal to the following values: <b>otherheaders/headerItem/name</b> is equal to Content-Location <b>otherHeaders/headerItem/value</b> is equal to the value of the Content-Location MIME header, for example the string: RN-Preamble Multiple MIME headers can be specified, so this is a recurring node.	None.

Note: You can use the **Write MIME** activity to build the contents of the **mimeHeader** node of the optional **mailheader** input parameter. For example, you could add a **Write MIME** activity to the orchestration before the **Send Email** activity and have the **Write MIME** activity populate the contents of the **mimeHeader** XML variable and then pass the **mimeHeader** variable to the **Send Email** activity.

See [Creating a map](#) for more information

Note: When using a non-English payload, the **mailheader**, **mimeHeader** and **otherheaders** need to be mapped into the orchestration in the **getEmail** activity, and mapped from the orchestration back into the **sendMail** activity.

**Parent topic:** [Email Activities](#)

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# Testing an SSL email connection

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After creating an endpoint for an email server, you must import the CA certificate for the email server into Studio and then test the SSL connection to the email server.

## About this task

---

Complete the following procedure to import the email servers CA certificate and then test the SSL connection to the email server:

## Procedure

---

1. Open a command window.
2. Navigate to the email server, and locate the certificate file ca-cert stored in the server.
3. Copy this file and then navigate to the workstation where Studio is installed.
4. Using the command window, paste the ca-cert copy in the home directory of Studio: C:\Program Files\IBM\WebSphere Cast Iron Studio x.x.x
5. Browse to the security directory of Studio: C:\Program Files\IBM\WebSphere Cast Iron Studio x.x.x\security
6. Run the following command to import the ca-cert file into Studio: ..\jre\bin\keytool.exe -import -v -keystore cacerts -storepass changeit -file ..\castiron\_ca\_cert.pem -alias alias\_name Where alias\_name is the alias of the email servers CA certificate.
7. When you are prompted for a yes or no, enter 'Y'.
8. Exit the command window.
9. Open the endpoint for the email server.
10. Verify the following login credentials for the email connection: Email server, Port, User, and Password.
11. Click Test Connection.
12. If the connection is successful, use this endpoint in Studio orchestrations, then use the Verify tab features to evaluate the orchestration.

**Parent topic:** [Email Activities](#)

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# Force.com Bulk API Activities

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- [Preparing Data for the Force.com Bulk API connector](#)

The Force.com Bulk API connector supports both XML and CSV input data. Following are the details to prepare data for these formats.

- [Creating a Force.com Bulk API endpoint](#)

Force.com Bulk API endpoints contain the connection information that studio and the Integration Appliance use to connect to the Salesforce.com server. You can create multiple endpoints that refer to separate instances.

- [Specifying the Retry options for Force.com Bulk API activities](#)

Specifying the Retry parameters is one of the tasks to configure an Force.com Bulk API activity.

- [Using the Force.com Bulk API Batch Insert activity](#)

Use the Force.com Bulk API Batch Insert activity to insert or create a large number of objects in Salesforce.com.

- [Using the Force.com Bulk API Batch Update activity](#)

Use the Force.com Bulk API Batch Update activity to update a large number of objects in Salesforce.com.

- [Using the Force.com Bulk API Batch Upsert activity](#)

Use the Force.com Bulk API Batch Upsert activity to update and insert a large number of objects in Salesforce.com.

- [Using the Force.com Bulk API Batch Delete activity](#)

Use the Force.com Bulk API Batch Delete activity to delete a large number of objects in Salesforce.com.

- [Using the Force.com Bulk API Get Batch Status activity](#)

Use the Force.com Bulk API Get Batch Status activity to get the status of an individual batch or the status of all the batches that are part of the job in Salesforce.com.

- [Using the Force.com Bulk API Get Batch Results activity](#)

Use the Force.com Bulk API Get Batch Results activity to retrieve the batch result to check the status of individual records, when a batch is completed in Salesforce.com.

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## Preparing Data for the Force.com Bulk API connector

---

The Force.com Bulk API connector supports both XML and CSV input data. Following are the details to prepare data for these formats.

### Preparing data for XML input

---

If you are using the XML data as input to the Force.com Bulk API connector, you can either create an XML schema, which can be mapped to the Force.com Bulk API activity or directly map from the previous activity's result to Force.com Bulk API activities.

### Preparing data for CSV input

Force.com Bulk API connector supports CSV input data from connector version 2.2. If you have the CSV data, you can directly map the CSV content to Force.com Bulk API activities. To do so, Force.com Bulk API connector activities expose two new fields, `object` and `data`, in the Map Inputs section. You must map the CSV content to `data` field and provide the selected object name in the `object` field.

Following is the sample for the CSV data, for Account object.

Name,BillingStreet,BillingCity,BillingState,BillingCountry  
XYZ,vvnagara,Bangalore,KA,India

Note:

1. In the CSV data, the first line must contain comma separated field names of the selected object, and from the second line, the actual data must be populated.
2. The order of the data fields must match that of the header field names.

**Parent topic:** [Force.com Bulk API Activities](#)

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## Creating a Force.com Bulk API endpoint

---

Force.com Bulk API endpoints contain the connection information that studio and the Integration Appliance use to connect to the Salesforce.com server. You can create multiple endpoints that refer to separate instances.

### About this task

---

Use this task to create or edit an Force.com Bulk API endpoint.

Note:

Any changes you make to the Force.com Bulk API endpoint, including configuration properties, affects all the orchestrations that use that endpoint, as the edits are global, not local.

## Procedure

---

1. Drag an activity from the Force.com Bulk API folder in the Activities tab to the Orchestration window. The Summary panel is displayed.
2. Click Pick Endpoint from the Checklist. The Pick Endpoint panel is displayed.
3. Click one of the following buttons:
  - a. Browse - To select an existing endpoint from Project Explorer. The Project Explorer shows all the endpoints in the project available for the activity. When you select an endpoint, the endpoint properties are displayed in the Pick Endpoint panel.
  - b. New - To create a new endpoint. The Create Endpoint window opens.
  - c. Edit - To edit the existing endpoint. The Edit Endpoint window opens.
4. Complete the fields defined in the following table:

Table 1. Connection Details

Field Name	Description
Connection Details	
User Name	Specifies the user name to connect to the Salesforce.com server.
Password	Specifies the password associated with the user name to connect to the Salesforce.com server.
URI	Specifies the host URI of the Salesforce.com instance

5. When finished, click Test Connection to confirm that you can connect to the Force.com Bulk API system.
6. Click OK.

**Parent topic:** [Force.com Bulk API Activities](#)

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## Specifying the Retry options for Force.com Bulk API activities

---

Specifying the Retry parameters is one of the tasks to configure an Force.com Bulk API activity.

### About this task

---

Use this task to configure the retry options for configuring Force.com Bulk API activities. The Force.com Bulk API connector uses a single login session for all connections to a Force.com Bulk API endpoint. If a session expires, the connector automatically establishes a new session. The connector does not count the initial attempt to reacquiring the session as a retry attempt. The connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails.

## Procedure

---

1. Select the Retry task from the Checklist. The retry pane is displayed.
2. Configure the retry and timeout options for connecting to an Force.com Bulk API instance, as described in the following table:

Table 1. Retry options

Retry Fields	Description
Wait __ second(s) between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the Force.com Bulk API instance.

Retry Fields	Description
Try to connect ____ times before failing.	<p>Specifies the retry count – the maximum number of times the Integration Appliance attempts to establish a connection to the Force.com Bulk API instance before issuing an error and stopping the processing of the current orchestration job.</p> <p>Note: If you deploy an orchestration that contains the Force.com Bulk API activity and the Integration Appliance cannot connect to the specified Force.com Bulk API instance, the Integration Appliance logs the connections errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3, the first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.</p>
<b>Activity Timeout</b>	
Timeout after ____ second(s) when the endpoint does not respond to a request.	Specifies the number of seconds the Integration Appliance waits before timing out, when the endpoint does not respond to a request. The default is 300 seconds.

**Parent topic:** [Force.com Bulk API Activities](#)

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## Using the Force.com Bulk API Batch Insert activity

Use the Force.com Bulk API Batch Insert activity to insert or create a large number of objects in Salesforce.com.

### About this task

Use this task to insert or create a large number of objects in Salesforce.com. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

1. In an active orchestration, open the Activities tab and expand the Force.com Bulk API folder contents.
2. Drag the Batch Insert activity icon onto the orchestration. The Force.com Bulk API Batch Insert Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Force.com Bulk API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating a Force.com Bulk API endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse Force.com Bulk API window is displayed.

11. In Browse Force.com Bulk API, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for Force.com Bulk API activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Batch Insert activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

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You have configured the Force.com Bulk API Batch Insert activity.

**Parent topic:** [Force.com Bulk API Activities](#)

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## Using the Force.com Bulk API Batch Update activity

---

Use the Force.com Bulk API Batch Update activity to update a large number of objects in Salesforce.com.

### About this task

---

Use this task to update a large number of objects in Salesforce.com. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Force.com Bulk API folder contents.
2. Drag the Batch Update activity icon onto the orchestration. The Force.com Bulk API Batch Update Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Force.com Bulk API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating a Force.com Bulk API endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse Force.com Bulk API window is displayed.
11. In Browse Force.com Bulk API, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for Force.com Bulk API activities](#).

14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Batch Update activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Force.com Bulk API Batch Update activity.

**Parent topic:** [Force.com Bulk API Activities](#)

---

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## Using the Force.com Bulk API Batch Upsert activity

---

Use the Force.com Bulk API Batch Upsert activity to update and insert a large number of objects in Salesforce.com.

### About this task

---

Use this task to update and insert a large number of objects in Salesforce.com. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Force.com Bulk API folder contents.
2. Drag the Batch Upsert activity icon onto the orchestration. The Force.com Bulk API Batch Upsert Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Force.com Bulk API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating a Force.com Bulk API endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse Force.com Bulk API window is displayed.
11. In Browse Force.com Bulk API, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for Force.com Bulk API activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Batch Upsert activity are displayed as nodes under the request input parameter in the To Activity panel.  
Note: The *externalIDFieldName* identifies whether a record must be updated or inserted. If you specify a value for the *externalIDFieldName*, then the record is updated in Salesforce.com. If there is no value set for *externalIDFieldName*, a record is inserted in Salesforce.com.
15. Create a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console (WMC). If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Force.com Bulk API Batch Upsert activity.

**Parent topic:** [Force.com Bulk API Activities](#)

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## Using the Force.com Bulk API Batch Delete activity

---

Use the Force.com Bulk API Batch Delete activity to delete a large number of objects in Salesforce.com.

### About this task

---

Use this task to delete a large number of objects in Salesforce.com. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Force.com Bulk API folder contents.
2. Drag the Batch Delete activity icon onto the orchestration. The Force.com Bulk API Batch Delete Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Force.com Bulk API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating a Force.com Bulk API endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Batch Delete activity are displayed as nodes under the request input parameter in the To Activity panel.  
Note: The input data for the delete activity is a list of IDs and the object name. All the objects that match the object name and ID are deleted from Salesforce.com.
10. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
11. Select Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
12. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Force.com Bulk API Batch Delete activity.

**Parent topic:** [Force.com Bulk API Activities](#)

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## Using the Force.com Bulk API Get Batch Status activity

---

Use the Force.com Bulk API Get Batch Status activity to get the status of an individual batch or the status of all the batches that are part of the job in Salesforce.com.

### About this task

---

Use this task to get the status of an individual batch or the status of all the batches that are part of the job in Salesforce.com. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Force.com Bulk API folder contents.
2. Drag the Get Batch Status activity icon onto the orchestration. The Force.com Bulk API Get Batch Status Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Force.com Bulk API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating a Force.com Bulk API endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Get Batch Status activity are displayed as nodes under the request input parameter in the To Activity panel.  
Note: The Bulk API activities return JobInfo, which contains JobId. The job ID can be used to invoke the `getBatchStatus` or `getBatchResult` activities.
10. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
11. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
12. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the Force.com Bulk API Get Batch Status activity.

**Parent topic:** [Force.com Bulk API Activities](#)

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# Using the Force.com Bulk API Get Batch Results activity

---

Use the Force.com Bulk API Get Batch Results activity to retrieve the batch result to check the status of individual records, when a batch is completed in Salesforce.com.

## About this task

---

Use this task to retrieve the batch result to check the status of individual records, when a batch is completed in Salesforce.com. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Force.com Bulk API folder contents.
2. Drag the Get Batch Results activity icon onto the orchestration. The Force.com Bulk API Get Batch Results Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Force.com Bulk API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating a Force.com Bulk API endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Get Batch Results activity are displayed as nodes under the request input parameter in the To Activity panel.  
Note: The Bulk API activities return JobInfo, which contains JobId. The job ID can be used to invoke the `getBatchStatus` or `getBatchResult` activities.
10. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
11. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
12. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Force.com Bulk API Get Batch Results activity.

**Parent topic:** [Force.com Bulk API Activities](#)

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# FTP Activities

---

- [Creating or Editing an FTP endpoint](#)  
FTP endpoints provide the connection information that Studio and the Integration Appliance use to connect to FTP Servers.
- [Configuring the FTP endpoint for the Parse Directory Listing Example](#)  
To run the Parse Directory Listing Example in your environment, configure the values of the configuration properties used by the FTP Endpoint to point to your FTP Server. In addition, your FTP Server must produce the directory listing in the same format as expected by the Flat File Schema.

- [FTP Poll Directory activity](#)  
During run time, the **FTP Poll Directory** activity connects to FTP Server and polls for the existence of the specified file or files at the specified location. After reading the contents of the file or files and mapping the contents into variable or variables of the orchestration, the **FTP Poll Directory** activity may delete the file or files, move the file or files, or leave the file or files in the directory of the FTP Server.
- [FTP Put File activity](#)  
During run time, the **FTP Put File** activity takes data from variables of the orchestration, places the data into a file, and connects to an FTP Server and places the file in the specified directory location.
- [FTP Get File activity](#)  
During run time, the **FTP Get File** activity connects to an FTP Server and attempts to get a single file at the specified location. You can configure the **FTP Get File** activity to return the contents of the file into a variable of the orchestration. In addition, you can configure the **FTP Get File** activity to return the timestamp of the file returned by the FTP Server into a variable of the orchestration.
- [FTP Delete File activity](#)  
Use the the **FTP Delete File** activity to delete specific files from the specific directories, during run time.
- [FTP List Files activity](#)  
During run time, the **FTP List Files** activity connects to an FTP Server and generates a list of files from the specified directory location using the specified regular expression. The **FTP List Files** activity returns the list of files to the orchestration using either the directoryListing or fileListing output parameter.
- [FTP Rename File activity](#)  
Use the **FTP Rename File** activity to rename and/or move a file to a different directory, during run time.
- [Parse directory listing example](#)  
This example gets a directory listing from and FTP directory using the **FTP List Files** activity, parses the long directory listing using Flat File Scheme, iterates through the list of files, based on the properties of each file.
- [Testing an FTPS server connection](#)  
After successfully running a "test connection", you can use Studio verify tools on FTPS orchestrations before publishing a project.

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## Creating or Editing an FTP endpoint

FTP endpoints provide the connection information that Studio and the Integration Appliance use to connect to FTP Servers.

1. In the Create Endpoint or Edit Endpoint pane, configure the fields as described in the following table.  
 Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project as the edits are global, not local.
2. When you had entered the field values, click Test Connection to confirm that you can connect to the FTP Server.
3. Click OK.

Table 1.

Field Name	Description
Location	A
Host Name	Specifies the Host Name or IP address for the FTP Server.
Port	Specifies the port number for the specified host name. The default is 21, the standard port for FTP traffic. The default port for SFTP traffic is 22.
Login	<b>Description</b>

<b>Field Name</b>	<b>Description</b>
Log into the Server as an Anonymous User	This option is only available with the Normal FTP option. Select this option only if the FTP Server allows anonymous logins (where a user account is not required).
Log into the Server with User Name and Password	Select this option to specify a user account to log in into the FTP Server. Enter the user name and password for the account used to connect to the FTP Server.
<b>Security</b>	<b>Description</b>
Normal FTP	Select the Normal FTP option for an unsecured connection.
Secure FTP	Select the Secure FTP option to secure the communication between the Integration Appliance and the FTP Server by sending and receiving the data over SSH. The SSH File Transfer Protocol (SFTP) is a network protocol that provides file transfer over a reliable data stream. Note: Certificate authentication for SFTP is not supported.
FTPS	Select the FTPS option to secure the communication between the Integration Appliance and the FTP Server using the SSL protocol. The SSL protocol supports mutual authentication between the Integration Appliance and FTP Server using an authenticated and encrypted connection. Choose one of the following authentication modes: <ul style="list-style-type: none"> <li>• Implicit</li> <li>• Explicit (SSL) - Starts an FTP session and uses SSL security to authenticate an endpoint and encrypts data before transfer.</li> <li>• Explicit (TLS) - Starts an FTP session and uses TLS security to authenticate the endpoint and encrypts data before transfer.</li> </ul> <p>Important: Before you can deploy a project using FTPS, you must upload and register a certificate on the Integration Appliance. For more information about uploading and registering a certificate, see the CLI Command Reference.</p>
Client Certificate Alias Name	When the FTPS server is configured to authenticate a client, select this option and specify a client certificate alias name. By default, when you select the Client Certificate Alias Name option, Studio provides the following name: Factory Supplied Identity  The client certificate alias name that you specify in this field should match the value you specified for the client certificate name using the Cast Iron® command line interface (CLI), when you uploaded or imported the certificate. In the CLI, if you mapped the client certificate name to the default alias name, accept the default name that Studio provides and configure the Connection Timeout for the endpoint.
<b>FTP Mode</b>	<b>Description</b>
Active FTP	Select this option to enable the Active mode. When you enable the Active mode option, you can specify the external IP and port range for incoming connections. By default, this option is not selected and the FTP endpoint supports passive mode transfers. Note: Active mode is not supported for SFTP.
External IP	(Optional) Specifies the client IP address from which the FTP Server will respond to connection attempts.
Port Range/Start Port	(Optional) Specifies the lowest port number of the predetermined range assigned to incoming connections. If you enter a start port number, you must also enter the end port number. Important: This number cannot be less than 1024.
Port Range/End Port	(Optional) Specifies the highest port number of the predetermined range assigned to incoming connections. If you enter an end port number, you must also enter the start port number. Important: This number cannot be greater than 65535.
<b>Connection Timeout</b>	<b>Description</b>

Field Name	Description
Time out after ____ second(s) when establishing a connection to the Endpoint.	<p>The number of seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the endpoint and the time it takes for the endpoint to respond to the connection request. For an FTP activity, the amount of time the Integration Appliance attempts to establish a connection to the FTP Server before timing out. A connection timeout is different from an activity timeout because an activity timeout occurs after the connection to the endpoint has already been established. An activity timeout specifies the amount of time in seconds before a timeout occurs between the activity invoking a request on an endpoint and the time it takes the endpoint to respond. You set the activity timeout in <b>Retry</b> task of the following FTP activities:</p> <ul style="list-style-type: none"> <li>• FTP Poll Directory activity</li> <li>• FTP Put File activity</li> <li>• FTP Get File activity</li> <li>• FTP Delete File activity</li> <li>• FTP List Files activity</li> <li>• FTP Rename File activity</li> </ul>

Note: For some of the fields in the endpoint, you can define configuration properties to supply the values for these fields. The  icon is displayed when you click in a field that supports a configuration property and a configuration property of the same type has already been configured for the project.

**Parent topic:** [FTP Activities](#)

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## Configuring the FTP endpoint for the Parse Directory Listing Example

---

To run the Parse Directory Listing Example in your environment, configure the values of the configuration properties used by the FTP Endpoint to point to your FTP Server. In addition, your FTP Server must produce the directory listing in the same format as expected by the Flat File Schema.

### About this task

---

Complete following steps only if you plan on running the Parse Directory Listing Example:

- [To edit and test the FTP configuration properties of the FTTParseDirListingExample in Studio](#)
- [To configure the root directory of the FTP Server](#)
- [To determine if your FTP Server generates the file listing in the same format as the Flat File Schema included in this example](#)
- [To run the FTTParseDirListingExample](#)

To only view and learn more about the example, complete the procedure in the [Parse Directory Listing Example](#) section.

#### **Edit and test the FTP configuration properties of the FTTParseDirListingExample in Studio:**

---

### Procedure

1. Open **FTTParseDirListingExample**. For instructions see steps 1-2 in [Parse Directory Listing Example](#).
2. From the toolbar menu, select Project > Configuration Properties. The Configuration Properties dialog box is displayed.
3. Edit the values of the properties to reflect your FTP Server.
4. In the Project tab, double-click the FTP Endpoint. The FTP Endpoint tab is displayed.
5. To verify that you entered the correct FTP information, click Test. If Studio connects to your FTP Endpoint, an Information dialog box is displayed with the message that you have successfully connected to the endpoint.
6. In the Project tab, double-click on the **processBids** orchestration. The **processBids** orchestration tab is displayed.

## What to do next

---

Configure the root directory of the FTP Server:

1. Add the additional directories to your FTP Server. Mirror the directory structure and also provided in the `FTPServerDirStructure` directory. If you accepted the defaults during the installation of Studio, this directory is located in the following location:  
`C:\Program Files\IBM\WebSphere Cast Iron Studio 3.X\Samples\FTPParseDirListing\FTPServerDirStructure`  
During run time, the Parse Directory Listing Example expects the root directory of the FTP Server to contain the following directory structure:

```
\input  
\processFailed  
\processWidgetRUs  
\processAcmeInc  
\processNewCompany
```

2. Move a copy of the `bid*.txt` files to the `\input` directory on your FTP Server. If you accepted the defaults during the installation of Studio, these files provided in the following directory location: `C:\Program Files\IBM\WebSphere Cast Iron Studio 3.X\Samples\FTPParseDirListing\FTPServerDirStructure\input`

Before running the example, a copy of the following files must be located in the `\input` directory of the FTP Server.

- o `bidAcmeInc.txt`
- o `bidCrankCo.txt`
- o `bidWidgetRUs.txt`
- o `bidBudgetManufacture.txt`
- o `bidSamAndSons.txt`

Determine if your FTP Server generates the file listing in the same format as the Flat File Schema included in this example:

1. Open **FTPParseDirListingExample**. For instructions see steps 1-2 in [Parse Directory Listing Example](#).
2. In the Project tab, double-click the **processBids** orchestration. The **processBids** orchestration tab is displayed.
3. Click the **FTP List Files** activity labeled `List Files Full Dir Listing`.
4. Click Test.
5. Determine if the format of the directory listing matches the following directory listing:

```
-rw-r--r-- 1 551 551 65 May 3 11:39 bidAcmeInc.txt  
-rw-r--r-- 1 551 551 43 May 3 11:39 bidBudgetManufacture.txt  
-rw-r--r-- 1 551 551 0 May 3 11:39 bidCrankCo.txt  
-rw-r--r-- 1 551 551 73 May 3 11:39 bidSamAndSons.txt  
-rw-r--r-- 1 551 551 33 May 3 11:39 bidWidgetRUs.txt
```

If the directory format is different, you can alter the Flat File Schema called **parseDirListing**.

### CAUTION:

Changing the nodes of the Flat File Schema may affect other entities in the orchestration. You may need to update the orchestration to reflect these changes.

For more information, see [Flat File Schema Editor Overview](#).

To open the Flat File Schema used in this example, in the Project tab, double-click on the `parseDirListing` in the Flat File Schema folder. Copy and paste the output of the Test button of the **FTP List Files** activity to a file and then open the file in the Test tab of the Flat File Schema Editor. Change the nodes of the Flat File Schema to reflect the directory listing. The size node is used by the "If size less or equal 0" branch of the **If..Then** activity. Make sure a value is provided for the size node during run time.

### Run the **FTPParseDirListingExample**:

1. From Studio, publish the **FTPParseDirListingExample** project. From the Studio toolbar, select File > Publish Project... .
2. From the Web Management Console (WMC), deploy the **FTPParseDirListingExample** project. For more information, see the WMC Online help or Step 11: Publish and Deploy the Completed Integration Project in the [Developing the BookOrder Project](#) section of the [Getting Started Guide](#).

**Parent topic:** [FTP Activities](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Configuring\\_the\\_FTP\\_Endpoint\\_for\\_the\\_Parse\\_Directory\\_Listing\\_Example.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Configuring_the_FTP_Endpoint_for_the_Parse_Directory_Listing_Example.html)

## FTP Poll Directory activity

During run time, the FTP Poll Directory activity connects to FTP Server and polls for the existence of the specified file or files at the specified location. After reading the contents of the file or files and mapping the contents into variable or variables of the orchestration, the **FTP Poll Directory** activity may delete the file or files, move the file or files, or leave the file or files in the directory of the FTP Server.

The FTP Poll Directory activity is a starter activity. When an orchestration that starts with an **FTP Poll Directory** activity is deployed to the Integration Appliance, the Integration Appliance polls for file or files to be added to a specific directory on the FTP Server. When a file or files is shown on the FTP Server, an orchestration job is started to processes the file or files and the rest of the activities in the orchestration. For more information, see [Polling Interval Behavior](#). For an example of an orchestration using the **FTP Poll Directory** activity, see the [Getting Started Guide](#).

Depending on your application requirements, you can process a list of files in an FTP directory using one of the following methods:

- For some cases, you can use only the **FTP Poll Directory** activity to process a set of files found in an FTP directory.
- In other cases, you must use the **FTP List Files** activity in conjunction with the **FTP Get File**, **FTP Put File**, **FTP Delete File**, and **FTP Rename File** activities.

Use the **FTP Poll Directory** activity to process a set of files found in an FTP directory when the following conditions are true:

- **The FTP Poll Directory activity supports the format of the directory listing of your FTP Server.** - The format of directory listings are different for the FTP Servers supported on different operating systems. The **FTP Poll Directory** activity supports many types of FTP Servers but if the directory listing format your FTP Server cannot be parsed by the **FTP Poll Directory** activity, use the **FTP List Files** activity with a Flat File Schema and the **FTP Get File**, **FTP Put File**, **FTP Delete File**, and **FTP Rename File** activities, to provide the same functionality as the **FTP Poll Directory** activity as shown in the Parse Directory Listing Example: [Parse directory listing example](#).
- **After reading each file in the list, each file in the list can be post-processed with the same action.** - For example, while processing a set of files from a FTP directory, if each file in the list can be moved to the same directory, you can use the **FTP Poll Directory** activity to process the set of files. If however, you need to process a different action based on the properties of a file, you must use the **FTP List Files** activity in conjunction with the **FTP Get File**, **FTP Put File**, **FTP Delete File**, and **FTP Rename File** activities. For example, if you must move files to different directories based on the filename, use the **FTP List Files** activity in conjunction with the **FTP Get File**, **FTP Put File**, **FTP Delete File**, and **FTP Rename File** activities as shown in the Parse Directory Listing Example: [Parse directory listing example](#).

## Symbolic links

The support for symbolic links by the **FTP Poll Directory** activity during run time is dependent on the following factors: ^

- The types of symbolic links supported by operating system that hosts the FTP Server.
- The types of symbolic links supported by the FTP Server itself.
- The types of symbolic links supported by the **FTP Poll Directory** activity, as listed in the following table:

Table 1.

Symbolic Links to...	Hard Symbolic Links	Soft Symbolic Links	Notes^
Files	Not Supported	Not Supported	The <b>FTP Poll Directory</b> activity does not interpret symbolic links to files as files and therefore symbolic links to files are not processed by the <b>FTP Poll Directory</b> activity during run time.
Directories	Supported	Supported	

To determine the specific symbolic link support for a specific FTP Server on a specific operating system, see your operating system and FTP Server documentation.

## Persistence

You should enable persistence for the FTP Poll Directory activity:

- If you have an orchestration job with a FTP Poll Directory activity that is processing large input files. Otherwise, you can experience problems like "Variable 'Lotdata' is too large, please turn on persistence for this orchestration".
- If you disable persistence and have an orchestration job with a FTP Poll Directory activity with the Keep in place option selected, and during run time if a failure occurs that causes the job to stop, when the orchestration is restarted it processes the file again. The state of the job is lost and Integration Appliance does not know that it has already processed the file.

For more information, see [Enabling persistence](#).

## Processing subdirectories with the Microsoft FTP Endpoint

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For the Microsoft IIS (Internet Information Services) FTP Endpoint, the run time behavior of the **FTP Poll Directory** activity when processing subdirectories and the files in subdirectories depends on the regular expression specified in the File Named field of the Configure task of the activity, as described in the following cases:

- When the regular expression is equal to the string: \*, the orchestration job processes the subdirectories in the specified directory.
- When the regular expression is equal to the string: \*\*, the orchestration job does not process the subdirectories in the specified directory.
- When the regular expression is blank, the orchestration job does not process the subdirectories in the specified directory

## Adding an FTP Poll Directory activity to the orchestration

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1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the FTP folder.
3. Drag the **Poll Directory** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed.

## Creating, selecting, or editing an FTP endpoint

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1. Click Pick Endpoint task from the Checklist and choose from one of the following actions:
  - Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.  
CAUTION:  
Specifying a new FTP endpoint with a different directory structure than the original FTP endpoint can cause the orchestration job to fail during run time. You must either specify a new FTP Server that matches the directory structure of the originally specified FTP Server or change the configured directory of the In Directory field by clicking Browse as described in the "Configure the activity" procedure.
    - b. Select an existing endpoint and click OK. Skip to the "Configure the activity" procedure.
  - Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.  
CAUTION:  
Specifying a new FTP endpoint with a different directory structure than the original FTP Endpoint can cause the orchestration job to fail during run time. You must either specify a new FTP Server that matches the directory structure of the originally specified FTP Server or change the configured directory of the In Directory field by clicking Browse as described in the "Configure the activity" procedure. Click Edit. The Edit Endpoint pane is displayed.
  - Create a new endpoint: Select New. The Create Endpoint pane is displayed.
2. Create or edit an FTP endpoint.

## Configuring the activity

---

1. Select the **Configure** task from the **Checklist**. The Configure pane is displayed.
2. Configure all the fields in this pane as described in the following table:

Table 2.

Field	Description

Field	Description
File Named	<p>Specifies a pattern or regular expression that defines the filename or filenames to get from the FTP Server. The processing of the regular expression is done by the FTP Server. For more information, see the FTP Server documentation on regular expressions . Typically, FTP Servers support the following wildcards in their regular expressions:</p> <ul style="list-style-type: none"> <li>◦ * - zero or more characters</li> <li>◦ ? - zero or one character</li> </ul> <p>Note: Because the processing of the regular expression is done on the FTP Server, the case sensitivity is determined by FTP Server. If the FTP Server is case sensitive, the file matching done by the FTP Poll Directory activity is also case sensitive.</p>
In Directory	<p>Specifies the directory where the Integration Appliance looks for files on the FTP Server. You can specify a directory using one of the following options:</p> <ul style="list-style-type: none"> <li>◦ Directly enter directory path by clicking in the field and typing in one of the following directory paths: <ul style="list-style-type: none"> <li>▪ Relative directory path, for example: input. (Assumes that FTP home has been configured for the user account that connects to the FTP Server. See "Note" for more information.)</li> <li>▪ Complete directory path, for example on a UNIX machine: /home/user/input.</li> </ul> </li> <li>◦ Click Browse... to populate the drop-down list of available directories. Select the appropriate directory from the drop-down list.</li> </ul> <p>Note: <b>UNIX:</b> If you specify a relative directory path when connecting to an FTP Server on a UNIX machine, verify that the FTP home directory has been correctly specified in the /etc/password file for the user account connecting to the FTP Server.</p>
Test	<p>After a regular expression has been specified in the File Named field and the directory to look for files on the FTP Server has been specified in the In Directory field, click Test to test the regular expression against the set of files in the specified directory on the FTP Server. A dialog box will appear listing any matching files.</p>
Of Type	<p>Specifies how to read in the contents of the file - either as binary data or encoded text. If the Text option is selected, set the encoding type using one of the following options:</p> <ul style="list-style-type: none"> <li>◦ From the encoded with drop-down list, select one of the default encoding types.</li> <li>◦ Enter your encoding type directly by clicking in the encoded with field and typing in your encoding type.</li> </ul> <p>Note: Some double-byte characters are not converted using the SHIFT-JIS encoding. For more information, see <a href="#">Using the Shift-JIS encoding</a>.</p>
Â	<p><b>CAUTION:</b>  You must specify the Transfer as Text (ASCII) option for FTP activities when retrieving text files and placing text files on an FTP Server for Endpoints that manipulate text data while transferring data from/to the FTP endpoint in ASCII mode. For example, mainframe and DOS FTP Endpoints manipulate ASCII data when passing data in ASCII mode. For example, if your orchestration retrieves ASCII files using the FTP Poll Directory activity and places ASCII files using the FTP Put File activity to a mainframe FTP Server, you must specify the options in the following tasks in Studio:</p> <ul style="list-style-type: none"> <li>◦ In the Configure task of an FTP Poll Directory activity, for the Of Type field select the Text option.</li> <li>◦ In the Delivery Rules task of an FTP Poll Directory activity, for the File Transfer Type field select the Transfer as Text (ASCII) option.</li> <li>◦ In the Configure task of an FTP Put File activity, for the Of Type field select the Text option.</li> <li>◦ In the Delivery Rules task of an FTP Put File activity, for the File Transfer Type field select the Transfer as Text (ASCII) option.</li> </ul>
After reading the file	<p><b>Delete it</b> - Delete the file after the file has been read.</p> <p><b>Move to directory</b> - Move the file to the specified directory after the file has been read.</p> <p>Specify the directory that the file is moved to during run time, using one of the following options:</p> <ul style="list-style-type: none"> <li>◦ Directly enter a directory path by clicking in the field and typing in one of the following directory paths: <ul style="list-style-type: none"> <li>▪ Relative directory path, for example: input/. (Assumes that FTP home has been configured for the user account that connects to the FTP Server. See "Note" for more information.)</li> <li>▪ Complete directory path, for example on a UNIX machine: /home/user/input/.</li> </ul> </li> <li>◦ Click Browse... to populate the drop-down list of available directories. Select the appropriate directory from the drop-down list.</li> </ul>

Field	Description
Â	<p>Attention: Specify the directory separator after the last listed directory name. For example, to move a file to the processed/acme directory in a relative path, specify the following directory in the Move to directory field: processed/acme/</p> <p>Optional - Specify the format of the file name after it has been renamed. From the Pattern drop-down list, select the desired pattern. To specify the character used to separate the sub-fields in the file name, enter a character in the Pattern Separator field. Specify the run time behavior when a file with the same file name exists:</p> <ul style="list-style-type: none"> <li>○ Select the Overwrite check box to specify that the existing file should be overwritten if a file with the same name already exists.</li> <li>○ Clear the Overwrite check box to specify that the existing file should not be overwritten if a file with the same name already exists.</li> </ul> <p>Note: The first time the <b>FTP Poll Directory</b> activity polls during run time, if the activity is unable to move the file because the specified move to directory does not exist, a warning is logged (not an error) to the Web Management Console (WMC) and the file stays in place. For all subsequent polls, the activity does not attempt to move the same file and an info level message is logged to the WMC stating that the file has already been processed.</p> <p><b>Keep in place</b> - Leave the file in the input directory after the file has been read.</p>
<b>Advanced Options</b>	<p><b>Description</b></p> <p>Duplicate List Size</p> <p>Size of the internal list used by the Integration Appliance to keep track of which files on the FTP Server have been polled or not. The default value is 10000. You should only specify a size larger than the default.</p>

## Specifying the delivery rules

1. Select the Delivery Rules task from the **Checklist**. The Delivery Rules pane is displayed.
  2. Specify the time interval to poll for the files on the FTP Server:
    - a. Select a time unit from the drop-down menu: seconds, minutes, hours, or days.
    - b. Specify the amount of time by clicking in the Polling Interval field and entering a value or using the up and down arrows.

For more information, see [Polling interval behavior](#).
  3. If security is not enabled for the FTP endpoint, the Transfer as Text (ASCII) and Transfer as Binary (BINARY) options are enabled in the Delivery Rules task. If security is enabled for the FTP Endpoint, the file transfer type is always binary.
- Select the type of file transfer between the Integration Appliance and the FTP Server from one of the following options:
- **Transfer as Text (ASCII)** - Only seven bits of each character in the file is transferred from the FTP Server to the Integration Appliance. This option is used for transferring ASCII files such as HTML and text files. **WARNING:** Using this option with binary files can result in a loss of data.
  - **Transfer as Binary (BINARY)** - All eight bits of each byte in the file is transferred from the FTP Server to the Integration Appliance. Â This option is used for transferring binary files.
- Note: Setting the transfer mode in the Delivery Rules task is equivalent to setting the transfer mode via a command line session with an FTP Server using the following commands:
- ascii
  - binary

Note: Cast Iron FTP connector SFTP endpoint supports only client side SFTP protocol version 3. Hence, the SFTP protocol does not support ASCII/text mode file transfer. Make sure to set the File Transfer Type to Transfer as Binary (BINARY) in the Checklist > Delivery Rules.

## Specifying the retry options

1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
2. Configure the retry options for connecting to an FTP Server. The following table defines the retry options for a connection to an FTP Server:

Table 3.

Field	Description
Retry	<p>Â</p> <p>1) Wait — second(s) between each retry.</p>
2) Try to connect __ times before failing .	<p>The number of seconds that the Integration Appliance waits before trying to establish a connection to the FTP Server.</p> <p>Specifies the retry count - the maximum number of times the Integration Appliance attempts to establish a connection to the FTP Server before issuing an error. If an orchestration that starts with an <b>FTP Poll Directory</b> activity is deployed and the Integration Appliance cannot connect to the specified FTP Server, the Integration Appliance logs the connection errors as warnings in the system log until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system log, resets the connection error count to zero, and continues to attempt to establish a connection to the FTP Server.</p> <p>For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and resets the connection error count to zero. Therefore, the fifth connection error generates a warning in the system log. The Integration Appliance continues to attempt to establish a connection to the FTP Server.</p>

## Mapping the output of the activity

1. Select the **Map Outputs** task in the **Checklist**. The output parameters of the activity are displayed in the From Activity pane as listed in the following table:

Table 4.

Output Parameter	Description
filename	Provides the name of the file found on the FTP Server.
data	Provides the contents of the file.
timestamp	Provides the date and time as a string in the XML Schema dataType format (YYYY-MM-DDhh:mm:ss, where YY is the year, MM is the month, DD is the day, hh is the timezone, mm is the minutes, and ss is the seconds.) Note: If the timestamp output parameter is mapped in the <b>Map Outputs</b> task but the MDTM (return the modification time of a file) functionality is not available or is not enabled for the FTP Server, during run time the orchestration will stop processing due to this error. A warning is generated and the Epoch date (1/1/1970) is returned in the timestamp output parameter.

2. You are not required to map the output parameters of the activity. See [Creating a map](#) for general instructions on mapping. Â

**Parent topic:** [FTP Activities](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ftp\\_poll\\_directory\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ftp_poll_directory_activity.html)

# FTP Put File activity

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During run time, the **FTP Put File** activity takes data from variables of the orchestration, places the data into a file, and connects to an FTP Server and places the file in the specified directory location.

For an example of using the **FTP Put File** activity, see the [Getting Started Guide](#).

## Transfer interruption

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The file transfer done by the **FTP Put File** activity during run time is non-transactional and therefore is not guaranteed. For example, if an **FTP Put File** activity transfers a file from the Integration Appliance to an FTP server and the transfer of the file is interrupted because the Integration Appliance is rebooted, it is not guaranteed that the entire file is transferred.

## Symbolic link

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The FTP Put File activity supports symbolic links to directories if the symbolic links to directories are supported by the operating system that hosts the FTP Server and the symbolic links to directories are supported by the FTP Server itself. To determine the specific symbolic link support for a specific FTP Server on a specific operating system, see your operating system and FTP Server documentation.

## Adding an FTP Put File activity to the orchestration

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1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the FTP folder.
3. Drag the **Put File** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed.

## Creating, selecting, or editing an FTP endpoint

---

1. Click Pick Endpoint task from the **Checklist** and choose one of the following actions:
  - o Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.  
Attention: Specifying a new FTP Endpoint with a different directory structure than the original FTP Endpoint can cause the orchestration job to fail during run time. You must either specify a new FTP Server that matches the directory structure of the originally specified FTP Server or change the configured directory of the In Directory field by clicking Browse as described in the "To configure the activity" procedure.
    - b. Select an existing endpoint and click OK. Skip to the "Configure the activity" procedure.
  - o Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.  
Attention: Specifying a new FTP Endpoint with a different directory structure than the original FTP Endpoint can cause the orchestration job to fail during run time. You must either specify a new FTP Server that matches the directory structure of the originally specified FTP Server or change the configured directory of the In Directory field by clicking Browse as described in the "Configure the activity" procedure.
    - c. Click Edit. The Edit Endpoint pane is displayed.
  - o Create a new endpoint: Select New. The Create Endpoint pane is displayed.
2. Create or edit an FTP endpoint: [Creating or Editing an FTP endpoint](#)

## Specifying the delivery rules

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1. Select the **Delivery Rules** task from the **Checklist**. The Delivery Rules pane is displayed. If security is not enabled for the FTP endpoint, the Transfer as Text (ASCII) and Transfer as Binary (BINARY) options are enabled. If security is enabled for the FTP endpoint, the file transfer type is always binary.
  2. Select the type of file transfer between the Integration Appliance and the FTP Server from one of the following options:
    - o **Transfer as Text (ASCII)** - This option is used for transferring files such as HTML, XML, and other text files. Line endings are converted as required and other text file conventions are followed.  
**CAUTION:**  
Using this option with binary files can result in a loss of data.
    - o **Transfer as Binary (BINARY)** - This option is used for transferring binary files. Using this option the Integration Appliance transfers data with no conversions.
- Note: Cast Iron FTP connector SFTP endpoint supports only client side SFTP protocol version 3. Hence, the SFTP protocol does not support ASCII/text mode file transfer. Make sure to set the File Transfer Type to Transfer as Binary (BINARY) in the

## Configuring the activity

1. Select the **Configure** task from the **Checklist**. The Configure pane is displayed.
2. Configure the fields in this pane as described in the following table:

Table 1.

Field	Description
<b>Save</b>	
File Named	This field is not used for this activity. You specify the name of the output file using the <b>filename</b> input parameter of the <b>Map Input</b> task.
In Directory	<p>Specifies the directory on the FTP server where the Integration Appliance places the file generated in this activity. You can specify a directory using one of the following options:</p> <ul style="list-style-type: none"> <li>○ Directly enter directory path by clicking in the field and typing in one of the following directory paths:           <ul style="list-style-type: none"> <li>■ Relative directory path, for example: /output. (Assumes that FTP home has been configured for the user account that connects to the FTP Server. See "<b>Note</b>" for more information.)</li> <li>■ Complete directory path, for example on a UNIX machine: /home/user/output.</li> </ul> </li> <li>○ Click <b>Browse...</b> to populate the drop-down list of available directories. Select the appropriate directory from the drop-down list.</li> </ul> <p><b>Note:</b> <b>UNIX:</b> If you specify a relative directory path when connecting to an FTP Server on a UNIX machine, verify that the FTP home directory has been correctly specified in the /etc/password file for the user account connecting to the FTP Server.</p>
Of Type	<p>Specifies how to read in the contents of the file - either as binary data or encoded text. If the Text option is selected, set the encoding type using one of the following options:</p> <ul style="list-style-type: none"> <li>○ From the encoded with drop-down list, select one of the default encoding types.</li> <li>○ Enter your encoding type directly by clicking in the encoded with field and typing in your encoding type.</li> </ul> <p><b>Note:</b> Some double-byte characters are not converted using the SHIFT-JIS encoding. For more information, see <a href="#">Using the Shift-JIS encoding</a>.</p>
Â	<p>Attention: You must specify the Transfer as Text (ASCII) option for FTP activities when retrieving text files and placing text files on an FTP Server for Endpoints that manipulate text data while transferring data from/to the FTP Endpoint in ASCII mode. For example, mainframe and DOS FTP Endpoints manipulate ASCII data when passing data in ASCII mode.</p> <p>For example, if your orchestration retrieves ASCII files using the <b>FTP Poll Directory</b> activity and places ASCII files using the <b>FTP Put File</b> activity to a mainframe FTP Server, you must specify the options in the following tasks in Studio:</p> <ul style="list-style-type: none"> <li>○ In the <b>Configure</b> task of an <b>FTP Poll Directory</b> activity, for the Of Type field select the Text option.</li> <li>○ In the <b>Delivery Rules</b> task of an <b>FTP Poll Directory</b> activity, for the File Transfer Type field select the Transfer as Text (ASCII) option.</li> <li>○ In the <b>Configure</b> task of an <b>FTP Put File</b> activity, for the Of Type field select the Text option.</li> <li>○ In the <b>Delivery Rules</b> task of an <b>FTP Put File</b> activity, for the File Transfer Type field select the Transfer as Text (ASCII) option.</li> </ul>
<b>Options</b> - Select one of the following options to define the behavior when a file of the same name already exists in the specified output directory:	
Overwrite Existing File if Duplicate File Name is Found	Specifies if the file already exists, destroys the contents of the original file with new data returned from the activity.
Append to Existing File	Specifies if the file already exists, keeps the original data in the file and appends the new data (returned from the activity) to the end of the file.

Field	Description
Raise Error if File with Duplicate Name is Found	<p>Specifies if the file already exists, keeps the original data in the file, throws an error, and does nothing with the new data returned from the activity.</p> <p>Note: When you select this option, the FTP Put File activity checks if the file exists on the server before uploading the file. In some FTP servers you may not have the permission to check if the file exists before uploading it. This is also referred to as Blind FTP. In such cases, the file is overwritten, even if you have selected the Raise Error if File with Duplicate Name is Found option.</p>

## Specifying the retry options

1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
2. Configure the retry options for connecting to an FTP Server. The following table describes the retry options for connecting to an FTP Server:

Table 2.

Field	Description
Retry	
1) Wait --- second(s) ) between each retry.	The number of seconds that the Integration Appliance waits before trying to establish a connection to the FTP Server.
2) Try to connect --- times before failing.	<p>Specifies the retry count - the maximum number of times the Integration Appliance attempts to establish a connection to the FTP Server before issuing an error and stopping the processing of the current orchestration job.</p> <p>If you deploy an orchestration that contains an <b>FTP Put File</b> activity and the Integration Appliance cannot connect to the specified FTP Server, the Integration Appliance logs the connections errors as warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system and orchestration logs and stops processing the current orchestration job.</p> <p>For example, you set the retry count to 3. The first, second, and third connection errors are shown in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.</p>

## Mapping the input of the activity

1. Select the **Map Inputs** task in the **Checklist**. The Retry pane is displayed. The input parameters of the activity are displayed in the To Activity pane.
2. You are not required to map all the input parameters of the activity. The following parameters are the required:
  - o filename
  - o data

All other parameters are optional. See [Creating a map](#) for general instructions on mapping. Â

If the input parameter listed in the following table are not displayed in the To Activity pane of the Map Inputs pane, select Map > Show Optional Parameters from the toolbar menu or right-click in the To Activity pane and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click on a node in the Map Inputs pane to make this option active.

You can optionally override the settings you specified in the **Configure** and **Pick Endpoint** task of the **Checklist** dynamically during run time, using the input parameters defined in the following table.

For example, the directory on the FTP Server where the Integration Appliance places the file generated in this activity, could be set in the **Configure** task to the directory called output. During run time, the directory name: outputXML could be passed into the activity using the directory input parameter. The directory name specified dynamically during run time overrides the original setting specified in the Configure pane. In this example, the file would be placed in the outputXML directory.

Table 3.

<b>Input Parameter Name/Node</b>	<b>Description</b>	<b>Overrides the Setting In Task?</b>
directory	Specifies the directory on the FTP server where the Integration Appliance places the file generated in this activity.	The directory input parameter overrides the In Directory field of the <b>Configure</b> task.
encoding	Specifies how the outgoing data is written out to the file: <ul style="list-style-type: none"> <li>• If no encoding is required, specify the string: <code>binary</code>.</li> <li>• If encoding is required, specify the encoding type that should be used to encode the outgoing data, for example: <code>UTF-8</code>, <code>US-ASCII</code>, <code>ISO_8859-1</code>, <code>EBCDIC-US</code>, or <code>SHIFT-JIS</code>.</li> </ul>	The encoding input parameter overrides the encoding specified in the Of Type field of the <b>Configure</b> task but if the Binary option is selected in the Of Type field of the <b>Configure</b> task, the encoding specified by the encoding input parameter is ignored.
overwrite	Specifies the behavior when a existing file of the same name already exists in the specified output directory. Specify one of the following values: <ul style="list-style-type: none"> <li>• <b>y</b> - Specifies if the file already exists, destroy the contents of the original file with new data returned from the activity.</li> <li>• <b>a</b> - Specifies if the file already exists, keep the original data in the file and append the new data (returned from the activity) to the end of the file.</li> <li>• <b>n</b> - Specifies if the file already exists, keep the original data in the file and do nothing with the new data returned from the activity.</li> </ul>	The overwrite input parameter overrides the Options field of the <b>Configure</b> task.
connection/timeout	Specifies the connection timeout - the amount of time in seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the endpoint and the time it takes for the endpoint to respond to the connection request. For the <b>FTP Put File</b> activity, the amount of time the Integration Appliance attempts to establish a connection to the FTP Server before timing out.	The <b>timeout</b> node of the connection input parameter overrides the Connection Timeout - Time out after <u>  </u> second(s) when establishing a connection to the Endpoint field of the FTP endpoint.
connection/host	Specifies the Host Name or IP address for the FTP server.	The <b>host</b> node of the connection input parameter overrides the Host Name field of the FTP endpoint.
connection/port	Specifies the port number for the specified host name. The standard port for FTP traffic is 21. The default port for SFTP traffic is 22.	The <b>port</b> node of the connection input parameter overrides the Port field of the FTP endpoint.
connection/username	Specify a user name for the account used to connect to the FTP Server.	The <b>username</b> node of the connection input parameter overrides the User Name field of the FTP endpoint.
connection/password	Specify a password for the account used to connect to the FTP Server.	The <b>password</b> node of the connection input parameter overrides the Password field of the FTP endpoint.

**Parent topic:** [FTP Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ftp\\_put\\_file\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ftp_put_file_activity.html)

## FTP Get File activity

During run time, the **FTP Get File** activity connects to an FTP Server and attempts to get a single file at the specified location. You can configure the **FTP Get File** activity to return the contents of the file into a variable of the orchestration. In addition, you can configure the **FTP Get File** activity to return the timestamp of the file returned by the FTP Server into a variable of the orchestration.

The **FTP Get File** activity differs from the **FTP Poll Directory** activity in the following ways:

- The **FTP Get File** activity does not poll for a file or files in the specified directory. Instead the **FTP Get File** activity checks for the file a single time and if the file is not found, it throws an error and the orchestration job continues to processing.
- The **FTP Get File** activity is not a starter activity, so it cannot be the first activity in an orchestration.
- The **FTP Get File** activity does not move or delete files on the FTP server.

## Symbolic link

The support for symbolic links by the **FTP Get File** activity during run time is dependant on the following factors:

- The types of symbolic links supported by operating system that hosts the FTP Server.
- The types of symbolic links supported by the FTP Server itself.
- The types of symbolic links supported by the **FTP Get File** activity, as listed in the following table:

Table 1.

Symbolic Links to...	Hard Symbolic Links	Soft Symbolic Links	Notes®
Files	Not Supported	Not Supported	The <b>FTP Get File</b> activity does not interpret symbolic links to files as files and therefore symbolic links to files are not processed by the <b>FTP Get File</b> activity during run time.
Directories	Supported	Supported	

To determine the specific symbolic link support for a specific FTP Server on a specific operating system, see your operating system and FTP Server documentation.

## Adding an FTP Get File activity in the orchestration

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the FTP folder.
3. Drag the **Get File** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed.

## Creating, selecting, or editing an FTP endpoint

1. Click Pick Endpoint task from the **Checklist** and choose from one of the following actions:
  - Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.  
Attention: Specifying a new FTP Endpoint with a different directory structure than the original FTP Endpoint can cause the orchestration job to fail during run time. You must either specify a new FTP Server that matches the directory structure of the originally specified FTP Server or change the configured directory of the In Directory field by clicking Browse as described in the Configuring the activity procedure.
    - b. Select an existing endpoint and click OK. Skip to the "Configure the activity" procedure.
  - Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.

- Attention: Specifying a new FTP Endpoint with a different directory structure than the original FTP Endpoint can cause the orchestration job to fail during run time. You must either specify a new FTP Server that matches the directory structure of the originally specified FTP Server or change the configured directory of the In Directory field by clicking Browse as described in the "Configure the activity" procedure.
- Click Edit. The Edit Endpoint pane is displayed.
  - Create a new endpoint: Select New. The Create Endpoint pane is displayed.
2. Create or edit an FTP endpoint: [Creating or Editing an FTP endpoint](#)

## Specifying the delivery rules

- Select the **Delivery Rules** task from the **Checklist**. The Delivery Rules pane is displayed. If security is not enabled for the FTP endpoint, the Transfer as Text (ASCII) and Transfer as Binary (BINARY) options are enabled. If security is enabled for the FTP endpoint, the file transfer type is always binary.
- Select the type of file transfer between the Integration Appliance and the FTP Server from one of the following options:
  - Transfer as Text (ASCII)** - Only seven bits of each character in the file is transferred by the Integration Appliance to the FTP Server. This option is used for transferring ASCII files such as HTML and text files.  
CAUTION:  
Using this option with binary files can result in a loss of data.
  - Transfer as Binary (BINARY)** - All eight bits of each byte in the file is transferred by the Integration Appliance to the FTP Server. This option is used for transferring binary files.

Note: Setting the transfer mode in the Delivery Rules task is equivalent to setting the transfer mode via a command line session with an FTP Server using the following commands:

- ascii
- binary

Note: Cast Iron FTP connector SFTP endpoint supports only client side SFTP protocol version 3. Hence, the SFTP protocol does not support ASCII/text mode file transfer. Make sure to set the File Transfer Type to Transfer as Binary (BINARY) in the Checklist > Delivery Rules.

## Configuring the activity

- Select the **Configure** task from the **Checklist**. The Configure pane is displayed.
- Configure all the fields in this pane as described in the following table:

Table 2.

Field	Description
File Name	This field is not used for this activity. You specify the name of the output file using the filename input parameter of the <b>Map Input</b> task.
From Directory	Specifies the directory on the FTP server where the Integration Appliance places the file generated in this activity. You can specify a directory using one of the following options: <ul style="list-style-type: none"> <li>Directly enter directory path by clicking in the field and typing in one of the following directory paths:               <ul style="list-style-type: none"> <li>Relative directory path, for example: /output. (Assumes that FTP home has been configured for the user account that connects to the FTP Server. See "<b>Note</b>" for more information.)</li> <li>Complete directory path, for example on a UNIX machine: /home/user/output.</li> </ul> </li> <li>Click Browse... to populate the drop-down list of available directories. Select the appropriate directory from the drop-down list.</li> </ul> Note: <b>UNIX:</b> If you specify a relative directory path when connecting to an FTP Server on a UNIX machine, verify that the FTP home directory has been correctly specified in the /etc/password file for the user account connecting to the FTP Server.
Of Type	Specifies how to read in the contents of the file - either as binary data or encoded text. If the Text option is selected, set the encoding type using one of the following options: <ul style="list-style-type: none"> <li>From the encoded with drop-down list, select one of the default encoding types.</li> <li>Enter your encoding type directly by clicking in the encoded with field and typing in your encoding type.</li> </ul>

Field	Description
Â	<p>Attention: You must specify the Transfer as Text (ASCII) option for FTP activities when retrieving text files and placing text files on an FTP Server for Endpoints that manipulate text data while transferring data from/to the FTP Endpoint in ASCII mode. For example, mainframe and DOS FTP Endpoints manipulate ASCII data when passing data in ASCII mode.</p> <p>For example, if your orchestration retrieves ASCII files using the <b>FTP Poll Directory</b> activity and places ASCII files using the FTP Put File activity to a mainframe FTP Server, you must specify the options in the following tasks in Studio:</p> <ul style="list-style-type: none"> <li>o In the <b>Configure</b> task of an <b>FTP Poll Directory</b> activity, for the Of Type field select the Text option.</li> <li>o In the <b>Delivery Rules</b> task of an <b>FTP Poll Directory</b> activity, for the File Transfer Type field select the Transfer as Text (ASCII) option.</li> <li>o In the <b>Configure</b> task of an <b>FTP Put File</b> activity, for the Of Type field select the Text option.</li> <li>o In the <b>Delivery Rules</b> task of an <b>FTP Put File</b> activity, for the File Transfer Type field select the Transfer as Text (ASCII) option.</li> </ul>

## Specifying the retry options

1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
2. Configure the retry options for connecting to an FTP Server. The following table defines the retry options for a connection to an FTP Server:

Table 3.

Field	Description
Retry	Â
1) Wait --- second(s) ) between each retry.	The number of seconds that the Integration Appliance waits before trying to establish a connection to the FTP Server.
2) Try to connect --- times before failing.	<p>Specifies the retry count - the maximum number of times the Integration Appliance attempts to establish a connection to the FTP Server before issuing an error and stopping the processing of the current orchestration job.</p> <p>If you deploy an orchestration that contains an <b>FTP Get File</b> activity and the Integration Appliance cannot connect to the specified FTP Server, the Integration Appliance logs the connections errors as warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system and orchestration logs and stops processing the current orchestration job.</p> <p>For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.</p>

## Mapping the input into the activity

1. Select the **Map Inputs** task in the **Checklist**. The input parameters of the activity are displayed in the To Activity pane.
2. The filename parameter is the only parameter you are required to provide a value in the activity. All other parameters are optional. The filename parameter specifies the name of the file to get from the FTP Server. You provide a value for the filename parameter by either by creating a link from the filename input parameter to a variable or by defining a default value for the filename input parameter.

If the optional input parameter listed in the following table are not displayed in the To Activity pane of the Map Inputs pane, select Map > Show Optional Parameters from the toolbar menu or right-click in the To Activity pane and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click on a node in the Map Inputs pane to make this option active.

You can optionally override the settings you specified in the **Configure** and **Pick Endpoint** task of the **Checklist** dynamically during run time, using the input parameters defined in the following table.

For example, the directory on the FTP Server where the Integration Appliance gets the file, could be set in the **Configure** task to the directory called input. During run time, the directory name: inputXML could be passed into the activity using the directory input parameter. The directory name specified dynamically during run time overrides the original setting specified in the Configure pane. In this example, the Integration Appliance attempts to get the file from the inputXML directory.

Table 4.

Input Parameter Name/ Node	Description	Overrides the Setting in Task?
directory	Specifies the directory on the FTP server where the Integration Appliance places the file generated in this activity.	The directory input parameter overrides the From Directory field of the <b>Configure</b> task.
encoding	<p>Specifies how the outgoing data is written out to the file:</p> <ul style="list-style-type: none"> <li>• If no encoding is required, specify the string: <code>binary</code>.</li> <li>• If encoding is required, specify the encoding type that should be used to encode the outgoing data, for example: <code>UTF-8</code>, <code>US-ASCII</code>, <code>ISO_8859-1</code>, <code>EBCDIC-US</code>, or <code>SHIFT-JIS</code>.</li> </ul>	The encoding input parameter overrides the encoding specified in the Of Type field of the <b>Configure</b> task but if the Binary option is selected in the Of Type field of the <b>Configure</b> task, the encoding specified by the encoding input parameter is ignored.
connection/time out	Specifies the connection timeout – the number of seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the endpoint and the time it takes for the endpoint to respond to the connection request. For the <b>FTP Get File</b> activity, the amount of time the Integration Appliance attempts to establish a connection to the FTP Server before timing out.	The timeout node of the connection input parameter overrides the Connection Timeout - Time out after ___ second(s) when establishing a connection to the Endpoint field of the FTP endpoint.
connection/host	Specifies the Host Name or IP address for the FTP server.	The <b>host</b> node of the connection input parameter overrides the Host Name field of the FTP endpoint.
connection/port	Specifies the port number for the specified host name. The standard port for FTP traffic is 21. The default port for SFTP traffic is 22.	The <b>port</b> node of the connection input parameter overrides the Port field of the FTP endpoint.
connection/user name	Specify a user name for the account used to connect to the FTP Server.	The <b>username</b> node of the connection input parameter overrides the User Name field of the FTP endpoint.
connection/password	Specify a password for the account used to connect to the FTP Server.	The <b>password</b> node of the connection input parameter overrides the Password field of the FTP endpoint.

## Mapping the output of the activity

1. Select the **Map Outputs** task in the **Checklist**. The output parameters of the activity are displayed in the From Activity pane as described in the following table:

Table 5.

Output Parameter Name	Description

<b>Output Parameter Name</b>	<b>Description</b>
data	Contains the contents of the file.
timestamp	Contains the timestamp for the file returned from the FTP Server, typically the creation date or last modified date of the file.

2. Map the desired output parameters to variables.

**Parent topic:** [FTP Activities](#)

[Feedback | Notices](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ftp\\_get\\_file\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ftp_get_file_activity.html)

## FTP Delete File activity

Use the the **FTP Delete File** activity to delete specific files from the specific directories, during run time.

Typically the **FTP Delete File** activity is used in conjunction with the **FTP List Files** activity as shown in the following example orchestration:

- The **Schedule Job** activity creates an orchestration job every hour.
- The **FTP List Files** activity generates a list of files found in the \temp directory located in the root directory of the FTP Server and stores the result into a string.
- The **Read Flat File** activity parses the list of files and stores the result into a repeating XML structure.
- The **For Each** activity iterates through repeating structure that contains the list of files:
  - If file ends in the .tmp extension, the **FTP Delete File** activity deletes the specified file.

For an example project that uses an **FTP Delete File** activity, see [Parse directory listing example](#).

## Symbolic link

The **FTP Delete File** activity supports symbolic links to directories if the following conditions are true:

- If symbolic links to directories are supported by operating system that hosts the FTP Server.
- If symbolic links to directories are supported by the FTP Server itself.

To determine the specific symbolic link support for a specific FTP Server on a specific operating system, see your operating system and FTP Server documentation.

## Adding an **FTP Delete File** activity in the orchestration

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the FTP folder.
3. Drag the **Delete File** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed.

## Creating, selecting, or editing an **FTP endpoint**

1. Click Pick Endpoint task from the **Checklist** and choose from one of the following actions:
  - Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.  
Attention: Specifying a new FTP Endpoint with a different directory structure than the original FTP Endpoint can cause the orchestration job to fail during run time. You must either specify a new FTP Server that matches the directory structure of the originally specified FTP Server or change the configured directory of the In Directory field by clicking Browse as described in the "Configure the activity" procedure.
    - b. Select an existing endpoint and click OK. Go to the "Configuring the activity" procedure.

- o Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.  
Attention: Specifying a new FTP Endpoint with a different directory structure than the original FTP Endpoint can cause the orchestration job to fail during run time. You must either specify a new FTP Server that matches the directory structure of the originally specified FTP Server or change the configured directory of the In Directory field by clicking Browse as described in the "Configuring the activity" procedure.
    - c. Click Edit. The Edit Endpoint pane is displayed.
  - o Create a new endpoint: Select New. The Create Endpoint pane is displayed.
2. Create or edit an FTP endpoint: [Creating or Editing an FTP endpoint](#)

## Configuring the activity

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1. Select the **Configure** task from the **Checklist**. The Configure pane is displayed.
2. Configure the fields in this pane as described in the following table:

Table 1.

Field	Description
Look for	A
File Name	This field is not used for this activity. You specify the name of the file to delete using the filename input parameter of the <b>Map Input</b> task.
In Directory	<p>Specifies the directory on the FTP server where the Integration Appliance deletes the specified file. You can specify a directory using one of the following options:</p> <ul style="list-style-type: none"> <li>o Directly enter directory path by clicking in the field and typing in one of the following directory paths:           <ul style="list-style-type: none"> <li>■ Relative directory path, for example: /process. (Assumes that FTP home has been configured for the user account that connects to the FTP Server. See "Note" for more information.)</li> <li>■ Complete directory path, for example on a UNIX machine: /home/user/process.</li> </ul> </li> <li>o Click Browse... to populate the drop-down list of available directories. Select the appropriate directory from the drop-down list.</li> </ul> <p>During run time, the value specified in the In Directory field of the <b>Configure</b> task is overwritten if a value is provided for the optional directory input parameter using one of the following options:</p> <ul style="list-style-type: none"> <li>o The directory input parameter is mapped to a variable.</li> <li>o A default value is provided for the directory input parameter.</li> </ul> <p>For more information, see the "Mapping the input of the activity" procedure.</p> <p>Note: <b>UNIX:</b> If you specify a relative directory path when connecting to an FTP Server on a UNIX machine, verify that the FTP home directory has been correctly specified in the /etc/password file for the user account connecting to the FTP Server.</p>

## Specifying the retry options

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1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
2. Configure the retry options for connecting to an FTP Server. The following table describes the retry options for connecting to an FTP Server:

Table 2.

Field	Description
Retry	A
1) Wait --- second(s) ) between each retry.	The number of seconds that the Integration Appliance waits before trying to establish a connection to the FTP Server.

Field	Description
2) Try to connect --- times before failing.	<p>Specifies the maximum number of times the Integration Appliance attempts to establish a connection to the FTP Server before issuing an error and stopping the processing of the current orchestration job.</p> <p>If you deploy an orchestration that contains an <b>FTP Delete File</b> activity and the Integration Appliance cannot connect to the specified FTP Server, the Integration Appliance logs the connection errors as warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system and orchestration logs and stops processing the current orchestration job.</p> <p>For example, you set the retry count to 3. The first, second, and third connection errors are shown in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.</p>

## Mapping the input of the activity

1. Select the **Map Inputs** task in the **Checklist**. The Retry pane is displayed. The input parameters of the activity are displayed in the To Activity pane.
2. You must map a variable to the filename input parameter. All other input parameters are optional. The filename parameter specifies the name of the file to delete on the FTP Server.

If the input parameter listed in the following table are not displayed in the To Activity pane of the Map Inputs pane, select Map > Show Optional Parameters from the toolbar menu or right-click in the To Activity pane and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click on a node in the Map Inputs pane to make this option active.

You can optionally override the settings you specified in the **Configure** and **Pick Endpoint** task of the **Checklist** dynamically during run time, using the input parameters defined in the following table.

For example, the directory on the FTP Server where the Integration Appliance deletes the file could be set in the **Configure** task to the directory called process. During run time, the directory name: processXML could be passed into the activity using the directory input parameter. The directory name specified dynamically during run time overrides the original setting specified in the Configure pane. In this example, the file would be deleted from the processXML directory.

Table 3.

Input Parameter Name/Node	Description	Overrides the Setting in Task?
directory	Specifies the directory on the FTP server where the Integration Appliance places the file generated in this activity.	The directory input parameter overrides the In Directory field of the <b>Configure</b> task.
connection/timeout	Specifies number of seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the endpoint and the time it takes for the endpoint to respond to the connection request. For the <b>FTP Delete File</b> activity, the amount of time the Integration Appliance attempts to establish a connection to the FTP Server before timing out. Â	The <b>timeout</b> node of the connection input parameter overrides the Connection Timeout -Time out after ___ second(s) when establishing a connection to the Endpoint field of the FTP endpoint. Â
connection/host	Specifies the Host Name or IP address for the FTP server.	The <b>host</b> node of the connection input parameter overrides the Host Name field of the FTP endpoint.
connection/port	Specifies the port number for the specified host name. The standard port for FTP traffic is 21. The default port for SFTP traffic is 22.	The <b>port</b> node of the connection input parameter overrides the Port field of the FTP endpoint.

Input Parameter Name/Node	Description	Overrides the Setting in Task?
connection/username	Specify a user name for the account used to connect to the FTP Server.	The <b>username</b> node of the connection input parameter overrides the User Name field of the FTP endpoint.
connection/password	Specify a password for the account used to connect to the FTP Server.	The <b>password</b> node of the connection input parameter overrides the Password field of the FTP endpoint.

Parent topic: [FTP Activities](#)

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/FTP\\_Delete\\_File\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/FTP_Delete_File_Activity.html)

## FTP List Files activity

During run time, the **FTP List Files** activity connects to an FTP Server and generates a list of files from the specified directory location using the specified regular expression. The **FTP List Files** activity returns the list of files to the orchestration using either the **directoryListing** or **fileListing** output parameter.

If the List Only Files (NLST) check box is cleared, a full directory listing including directory permissions, timestamps, and ownership is returned in the **directoryListing** output parameter as a single string. When a full directory listing is returned as a string, you must parse the directory listing using a Flat File Schema with the **Read Flat File** activity. If the List Only Files (NLST) check box is selected and the **FTP List Files** activity supports the format of the directory listing for your FTP Server, a repeating structure of just filenames (if supported by the FTP server) is returned in the **fileListing** output parameter. When a repeating structure of filename is returned, you do not need to parse the directory listing and can just iterate through the list using a **For Each** or **While Loop** activity. The FTP server you are connecting to must support the NLST command. The response provided by the FTP server is returned.

For some cases, you must use the **FTP List Files** activity in conjunction with the **FTP Get File**, **FTP Put File**, **FTP Delete File**, and **FTP Rename File** activities. to process a set of files found in an FTP directory, while in other cases you can just use the **FTP Poll Directory** activity.

Use the **FTP List Files** activity in conjunction with the **FTP Get File**, **FTP Put File**, **FTP Delete File**, and **FTP Rename File** activities, to process a set of files found in an FTP directory if any of the following conditions are true:

- **The FTP Poll Directory activity does not support the format of the directory listing of your FTP Server** - The format of directory listings are different for the FTP Servers supported on different operating systems. The **FTP Poll Directory** activity supports many types of FTP Servers but if the directory listing format of your FTP Server cannot be parsed by the **FTP Poll Directory** activity, use the **FTP List Files** activity and the **FTP Get File**, **FTP Put File**, **FTP Delete File**, and **FTP Rename File** activities, to provide the same functionality as the **FTP Poll Directory** activity as shown in the Parse Directory Listing Example: [Parse directory listing example](#).
- **Each file in the list must be post-processed with a different action.** - For example, if you must move files to a different directories based on the filename, use the **FTP List Files** activity in conjunction with the **FTP Get File**, **FTP Put File**, **FTP Delete File**, and **FTP Rename File** activities as show in the Parse Directory Listing Example: [Parse directory listing example](#). However, if each file can be post-processed using the same action, you can use the **FTP Poll Directory** activity to process the set of files.

## Symbolic links

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The support for symbolic links by the **FTP List Files** activity during run time is dependant on the following factors: Â

- The types of symbolic links supported by operating system that hosts the FTP Server.
- The types of symbolic links supported by the FTP Server itself.
- The types of symbolic links supported by the **FTP List Files** activity, as listed in the following table:

Table 1.

Symbolic Links to...	Hard Symbolic Links	Soft Symbolic Links	NotesÂ®
Files	Not Supported	Not Supported	The <b>FTP List Files</b> activity does not interpret symbolic links to files as files and therefore symbolic links to files are not processed by the <b>FTP List Files</b> activity during run time.
Directories	Supported	Supported	Â

To determine the specific symbolic link support for a specific FTP Server on a specific operating system, see your operating system and FTP Server documentation.

## Processing subdirectories with the Microsoft FTP Endpoint

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For the Microsoft IIS (Internet Information Services) FTP Endpoint, the run time behavior of the **FTP List Files** activity when processing subdirectories and the files in subdirectories depends on the regular expression specified in the File Named field of the **Configure** task of the activity, as described in the following cases:

- When the regular expression is equal to the string: \*, the orchestration job processes the subdirectories in the specified directory.
- When the regular expression is equal to the string: \*\*, the orchestration job does not process the subdirectories in the specified directory.
- When the regular expression is blank, the orchestration job does not process the subdirectories in the specified directory.

## Adding an **FTP List Files** activity to the orchestration

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1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the FTP folder.
3. Drag the **List Files** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed.

## Creating, selecting, or editing an FTP endpoint

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1. Click Pick Endpoint task from the **Checklist** and choose from one of the following actions:
  - Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.  
Attention: Specifying a new FTP Endpoint with a different directory structure than the original FTP Endpoint can cause the orchestration job to fail during run time. You must either specify a new FTP Server that matches the directory structure of the originally specified FTP Server or change the configured directory of the In Directory field by clicking Browse as described below in the "Configuring the activity" procedure.
    - b. Select an existing endpoint and click OK. Skip to the "Configuring the activity" procedure.
  - Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.  
Attention: Specifying a new FTP Endpoint with a different directory structure than the original FTP Endpoint can cause the orchestration job to fail during run time. You must either specify a new FTP Server that matches the directory structure of the originally specified FTP Server or change the configured directory of the In Directory field by clicking Browse as described below in the "Configuring the activity" procedure.
    - c. Click Edit. The Edit Endpoint pane is displayed.
  - Create a new endpoint: Select New. The Create Endpoint pane is displayed.
2. Create or edit an FTP endpoint: [Creating or Editing an FTP endpoint](#).

## Configuring the activity

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1. Select the **Configure** task from the **Checklist**. The Configure pane is displayed.
2. Configure all the fields in this pane as described in the following table:

Table 2.

Field	Description
In Directory	<p>Specifies the directory on the FTP server where the Integration Appliance generates a list of files in the directory. You can specify a directory using one of the following options:</p> <ul style="list-style-type: none"> <li>o Directly enter directory path by clicking in the field and typing in one of the following directory paths: <ul style="list-style-type: none"> <li>■ Relative directory path, for example: /process. (Assumes that FTP home has been configured for the user account that connects to the FTP Server. See the note below for more information.)</li> <li>■ Complete directory path, for example on a UNIX machine: /home/user/process.</li> </ul> </li> <li>o Click Browse... to populate the drop-down list of available directories. Select the appropriate directory from the drop-down list.</li> </ul> <p>Note: <b>UNIX:</b> If you specify a relative directory path when connecting to an FTP Server on a UNIX machine, verify that the FTP home directory has been correctly specified in the /etc/password file for the user account connecting to the FTP Server.</p>
File Named	Specifies a glob pattern that defines the file names you need to get from the FTP Server. The processing of the glob pattern is done by the FTP Server. For more information, see the FTP Server documentation on glob pattern.
List Only Files (NLST)	The List Only Files (NLST) check box determines the type of directory listing returned by the Test button and during run time. In addition, this check box defines if the fileListing or the directoryListing output parameter is displayed in the <b>Map Outputs</b> task and returned by the activity during run time.
Â	If the List Only Files (NLST) check box is selected, just the filenames (if supported by the FTP server) are returned when the Test button is clicked, as shown in <a href="#">Figure 1</a> . In addition, when the List Only Files (NLST) check box is selected, the fileListing output parameter is listed in the Map Outputs task. During run time, the set of files are returned in the fileName repeating node of the fileListing output parameter. The FTP server you are connecting to must support the NLST command. The response provided by the FTP server is returned.
Â	If the List Only Files (NLST) check box is cleared, a full directory listing including directory permissions, timestamps, and ownership are returned when the Test button is clicked, as shown in <a href="#">Figure 2</a> . In addition, when the List Only Files (NLST) check box is selected, the directoryListing output parameter is listed in the <b>Map Outputs</b> task. During run time, the full directory listing is provided as a single string and returned using the directoryListing output parameter.

Figure 1. Example listing when List Only Files (NLST) is selected.

```
bidAcmeInc.txt
bidBudgetManufacture.txt
bidCrankCo.txt
bidSamAndSons.txt
bidWidgetRUs.txt
```

Figure 2. Example listing when List Only Files (NLST) is cleared.

```
-rw-r--r--Â 1 551Â Â Â Â 551Â Â Â Â 65 May 3 11:39 bidAcmeInc.txt
-rw-r--r--Â 1 551Â Â Â Â 551Â Â Â Â 43 May 3 11:39 bidBudgetManufacture.txt
-rw-r--r--Â 1 551Â Â Â Â 551Â Â Â Â 0 May 3 11:39 bidCrankCo.txt
-rw-r--r--Â 1 551Â Â Â Â 551Â Â Â Â 73 May 3 11:39 bidSamAndSons.txt
-rw-r--r--Â 1 551Â Â Â Â 551Â Â Â Â 33 May 3 11:39 bidWidgetRUs.txt
```

## Specifying the retry options

1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.

2. Configure the retry options for connecting to an FTP Server. The following table defines the retry options for a connection to an FTP Server:

Table 3.

Field	Description
Retry ____ second(s) ) between each retry.	The number of seconds that the Integration Appliance waits before trying to establish a connection to the FTP Server.
2) Try to connect --- times before failing.	<p>Specifies the retry count - the maximum number of times the Integration Appliance attempts to establish a connection to the FTP Server before issuing an error.</p> <p>If an orchestration that starts with an <b>FTP List Files</b> activity is deployed and the Integration Appliance cannot connect to the specified FTP Server, the Integration Appliance logs the connection errors as warnings in the system log until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system log, resets the connection error count to zero, and continues to attempt to establish a connection to the FTP Server.</p> <p>For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and resets the connection error count to zero. Therefore, the fifth connection error generates a warning in the system log. The Integration Appliance continues to attempt to establish a connection to the FTP Server.</p>

## Mapping the input of the activity

- Select the **Map Inputs** task in the **Checklist**. The Retry pane is displayed. The input parameters of the activity are displayed in the To Activity pane.
- It is optional to map the input parameters of the **FTP List Files** activity. The **FTP List Files** activity has the following optional input parameters: Â Â Â
  - o directory
  - o connection

If the input parameter listed in the following table are not displayed in the To Activity pane of the Map Inputs pane, select Map > Show Optional Parameters from the toolbar menu or right-click in the To Activity pane and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click on a node in the Map Inputs pane to make this option active.

You can optionally override the settings you specified in the **Configure** and **Pick Endpoint** task of the **Checklist** dynamically during run time, using the input parameters defined in the following table.

For example, the directory on the FTP Server where the Integration Appliance gets the list of files, could be set in the **Configure** task to the directory called input. During run time, the directory name: inputXML could be passed into the activity using the directory input parameter. The directory name specified dynamically during run time overrides the original setting specified in the Configure pane. In this example, the list of files is generated from the inputXML directory.

Table 4.

Input Parameter Name/Node	Description	Overrides the Setting in Task?
directory	Specifies the directory on the FTP server where the Integration Appliance generates a list of files in this activity.	The directory input parameter overrides the In Directory field of the <b>Configure</b> task.

Input Parameter Name/Node	Description	Overrides the Setting in Task?
connection/timeout	Specifies the amount of time in seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the endpoint and the time it takes for the endpoint to respond to the connection request. For the <b>FTP Delete File</b> activity, the amount of time the Integration Appliance attempts to establish a connection to the FTP Server before timing out. Â	The <b>timeout</b> node of the connection input parameter overrides the Connection Timeout -Time out after ____ second(s) when establishing a connection to the Endpoint field of the FTP endpoint. Â
connection/host	Specifies the Host Name or IP address for the FTP server.	The <b>host</b> node of the connection input parameter overrides the Host Name field of the FTP endpoint.
connection/port	Specifies the port number for the specified host name. The standard port for FTP traffic is 21. The default port for SFTP traffic is 22.	The <b>port</b> node of the connection input parameter overrides the Port field of the FTP endpoint.
connection/username	Specify a user name for the account used to connect to the FTP Server.	The <b>username</b> node of the connection input parameter overrides the User Name field of the FTP endpoint.
connection/password	Specify a password for the account used to connect to the FTP Server.	The <b>password</b> node of the connection input parameter overrides the Password field of the FTP endpoint.

## Mapping the output of the activity

1. Select the **Map Outputs** task in the **Checklist**. The directoryListing or fileListing output parameters is displayed in the From Activity pane.
2. Map the directoryListing or fileListing output parameter to a variable. See [Creating a map](#) for general instructions on mapping.

During run time, the **FTP List Files** activity returns the list of files to the orchestration using the directoryListingÂ or fileListing output parameter.

If the List Only Files (NLST) check box is cleared in the **Configure** task, a full directory listing including directory permissions, timestamps, and ownership is returned in the directoryListing output parameter as a single string. When a full directory listing is returned as a string, you must parse the directory listing using a Flat File Schema with the Read Flat File activity. You can create a Flat File Schema using the Flat File Schema Editor. For an example orchestration parsing a directory listing using a Flat File Schema, see the Parse Directory Listing Example: [Parse directory listing example](#).

If the List Only Files (NLST) check box is selected and the **FTP List Files** activity supports the format of the directory listing for your FTP Server, a repeating structure of just filenames (if supported by the FTP server) is returned in the fileListing output parameter. When a repeating structure of filename is returned, you do not need to parse the directory listing and can just iterate through the list using a **For Each** or **While Loop** activity.

**Parent topic:** [FTP Activities](#)

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## FTP Rename File activity

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Use the **FTP Rename File** activity to rename and/or move a file to a different directory, during run time.

The directory that the **FTP Rename File** activity renames is shown in the following supported cases:

- Move the file to a new directory and rename the file. For example a file named BidAcmeInc.xml is moved from the directory called input directory to the process directory and renamed to NewBidAcmeInc.xml.
- Move the file to a new directory but keep the existing file name. For example a file named BidAcmeInc.xml is moved from the directory called input directory to the process directory.
- Rename the file and keep it in the original directory. For example a file named BidAcmeInc.xml is renamed to NewBidAcmeInc.xml in the input directory.

For an example project that uses an FTP Rename File activity, see the Parse Directory Listing Example: [Parse directory listing example](#).

## Symbolic link

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The FTP Rename File activity supports symbolic links to directories if the following conditions are true:

- If symbolic links to directories are supported by operating system that hosts the FTP Server.
- If symbolic links to directories are supported by the FTP Server itself.

To determine the specific symbolic link support for a specific FTP Server on a specific operating system, see your operating system and FTP Server documentation.

## Adding an FTP Rename File activity in the orchestration

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1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the FTP folder.
3. Drag the **Rename File** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed.

## Creating, selecting, or editing an FTP endpoint

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1. Click Pick Endpoint task from the **Checklist** and choose from one of the following actions:
  - Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.  
Attention: Specifying a new FTP Endpoint with a different directory structure than the original FTP Endpoint can cause the orchestration job to fail during run time. You must either specify a new FTP Server that matches the directory structure of the originally specified FTP Server or change the configured directory of the In Directory field by clicking Browse as described in the "Configuring the activity" procedure.
    - b. Select an existing endpoint and click OK. Go to the "Configuring the activity" procedure
  - Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.  
Attention: Specifying a new FTP Endpoint with a different directory structure than the original FTP Endpoint can cause the orchestration job to fail during run time. You must either specify a new FTP Server that matches the directory structure of the originally specified FTP Server or change the configured directory of the In Directory field by clicking Browse as described in the "Configuring the activity" procedure.
    - c. Click Edit. The Edit Endpoint pane is displayed.
  - Create a new endpoint: Select New. The Create Endpoint pane is displayed.
2. Create or edit an FTP endpoint: [Creating or Editing an FTP endpoint](#)

## Configuring the activity

---

1. Select the **Configure** task from the **Checklist**. The Configure pane is displayed.
2. Configure the fields in this pane as described in the following table:  
**Table 1.**

Field	Description
Rename	Â
File Named	This field is not used for this activity. You specify the name of the file to rename using the fromFilename input parameter of the <b>Map Input</b> task.
From Directory	<p>Specifies the directory on the FTP server where the Integration Appliance deletes the specified file. You can specify a directory using one of the following options:</p> <ul style="list-style-type: none"> <li>o Directly enter directory path by clicking in the field and typing in one of the following directory paths: <ul style="list-style-type: none"> <li>■ Relative directory path, for example: /process. Â (Assumes that FTP home has been configured for the user account that connects to the FTP Server. See "<b>Note</b>" for more information.)</li> <li>■ Complete directory path, for example on a UNIX machine: /home/user/process.</li> </ul> </li> <li>o Click Browse... to populate the drop-down list of available directories. Select the appropriate directory from the drop-down list.</li> </ul> <p><b>Note: UNIX:</b> If you specify a relative directory path when connecting to an FTP Server on a UNIX machine, verify that the FTP home directory has been correctly specified in the /etc/password file for the user account connecting to the FTP Server.</p>
New Path	<p>This field is not used for this activity. You specify the full path including the new filename and the new directory on the FTP server, where the Integration Appliance puts the file that has been moved using the toPathinput parameter of the Map Input task.</p> <p><b>Note: UNIX:</b> If you specify a relative directory path when connecting to an FTP Server on a UNIX machine, verify that the FTP home directory has been correctly specified in the /etc/password file for the user account connecting to the FTP Server.</p>
<b>Options</b> - Select one of the following options to define the behavior when a existing file of the same name already exists in the specified output directory:	
Overwrite Existing File if Duplicate File Name is Found	Specifies if the file already exists, destroys the contents of the original file with new data returned from the activity.
Raise Error if File with Duplicate Name is Found	Specifies if the file already exists, keeps the original data in the file, throws an error, and does nothing with the new data returned from the activity.

## Specifying the retry options

1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
2. Configure the retry options for connecting to an FTP Server. The following table describes the retry options for connecting to an FTP Server:

Table 2.

Field	Description
Retry	Â
1) Wait --- second(s) ) between each retry.	The number of seconds that the Integration Appliance waits before trying to establish a connection to the FTP Server.

Field	Description
2) Try to connect --- times before failing.	<p>Specifies the retry count - the maximum number of times the Integration Appliance attempts to establish a connection to the FTP Server before issuing an error and stopping the processing of the current orchestration job.</p> <p>If you deploy an orchestration that contains an <b>FTP Rename File</b> activity and the Integration Appliance cannot connect to the specified FTP Server, the Integration Appliance logs the connection errors as warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system and orchestration logs and stops processing the current orchestration job.</p> <p>For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.</p>

## Mapping the input of the activity

- Select the **Map Inputs** task in the **Checklist**. The Retry pane is displayed. The input parameters of the activity are displayed in the To Activity pane.
- You must map a variable to the following input parameters:
  - fromFilename - During a rename action, this parameter specifies the original name of the file to rename.
  - toPath - During a rename action, this parameter specifies the path including both the new directory name and the new name of the file. For example to specify that the file be moved to the /output directory of the root of the FTP Server using the fileNewName.txt filename, specify the following value for toPath: /output/fileNewName.txt

All other input parameters are optional. See Creating a Map for general instructions on mapping. ^

If the input parameter listed in the following table are not displayed in the To Activity pane of the Map Inputs pane, select Map > Show Optional Parameters from the toolbar menu or right-click in the To Activity pane and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click on a node in the Map Inputs pane to make this option active.

You can optionally override the settings you specified in the **Configure** and **Pick Endpoint** task of the **Checklist** dynamically during run time, using the input parameters defined in the following table.

For example, the directory on the FTP Server where the Integration Appliance places the file generated in this activity, could be set in the **Configure** task to the directory called output. During run time, the directory name: outputXML could be passed into the activity using the directory input parameter. The directory name specified dynamically during run time overrides the original setting specified in the Configure pane. In this example, the file would be placed in the outputXML directory.

Table 3.

Input Parameter Name/ Node	Description	Overrides the Setting in Task?
fromDirectory	Specifies the directory on the FTP server where the Integration Appliance gets the list of files.	The directory input parameter overrides the In Directory field of the <b>Configure</b> task.
overwritetime	Specifies the amount of time in seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the endpoint and the time it takes for the endpoint to respond to the connection request. For the <b>FTP List Files</b> activity, ^ the amount of time the Integration Appliance attempts to establish a connection to the FTP Server before timing out.	The <b>timeout</b> node of the connection input parameter overrides the Connection Timeout -Time out after ___ second(s) when establishing a connection to the Endpoint field of the FTP endpoint.

<b>Input Parameter Name/Node</b>	<b>Description</b>	<b>Overrides the Setting in Task?</b>
connection/timeout	Specifies the Host Name or IP address for the FTP server.	The <b>timeout</b> node of the connection input parameter overrides the Connection Timeout -Time out after ___ second(s) when establishing a connection to the Endpoint field of the FTP endpoint. Â
connection/host	Specifies the port number for the specified host name. The standard port for FTP traffic is 21. The default port for SFTP traffic is 22.	The <b>host</b> node of the connection input parameter overrides the Host Name field of the FTP endpoint.
connection/port	Specifies the port number for the specified host name. The standard port for FTP traffic is 21. The default port for SFTP traffic is 22.	The <b>port</b> node of the connection input parameter overrides the Port field of the FTP endpoint.
connection/username	Specify a user name for the account used to connect to the FTP Server.	The <b>username</b> node of the connection input parameter overrides the User Name field of the FTP endpoint.
connection/password	Specify a password for the account used to connect to the FTP Server.	The <b>password</b> node of the connection input parameter overrides the Password field of the FTP endpoint.

## Mapping the output of the activity

1. Select the **Map Outputs** task in the **Checklist**. The directoryListing or fileListing output parameters is displayed in the From Activity pane.
2. Map the directoryListingÂ or fileListing output parameter to a variable. See Creating a Map for general instructions on mapping.

During run time, the **FTP List Files** activity returns the list of files to the orchestration using the directoryListingÂ or fileListing output parameter.

If the List Only Files (NLST) check box is cleared in the **Configure** task, a full directory listing including directory permissions, timestamps, and ownership is returned in the directoryListing output parameter as a single string. When a full directory listing is returned as a string, you must parse the directory listing using a Flat File Schema with the **Read Flat File** activity. You can create a Flat File Schema using the Flat File Schema Editor. For an example orchestration parsing a directory listing using a Flat File Schema, see the Parse Directory Listing Example: [Parse directory listing example](#).

If the List Only Files (NLST) check box is selected and the **FTP List Files** activity supports the format of the directory listing for your FTP Server, a repeating structure of just filenames is returned in the fileListing output parameter. When a repeating structure of filename is returned, you do not need to parse the directory listing and can just iterate through the list using a **For Each** or **While Loop** activity.

**Parent topic:** [FTP Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/FTP\\_Rename\\_File\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/FTP_Rename_File_Activity.html)

## Parse directory listing example

This example gets a directory listing from an FTP directory using the **FTP List Files** activity, parses the long directory listing using Flat File Schema, iterates through the list of files, based on the properties of each file.

### About this task

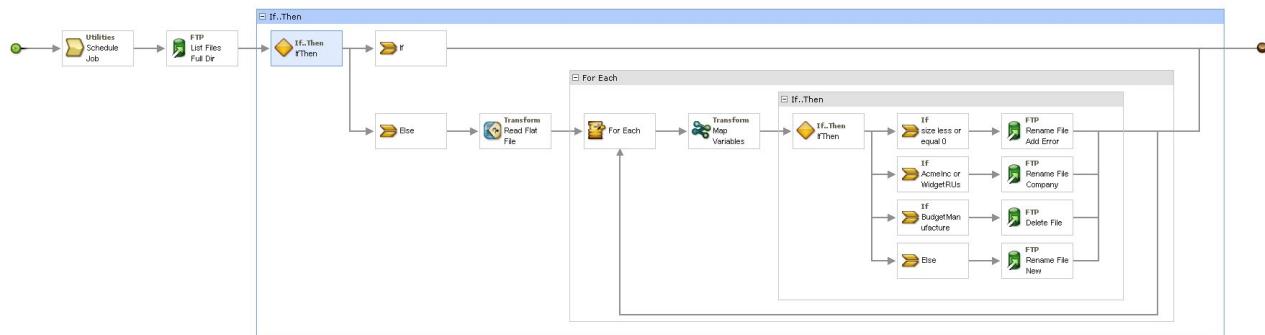
Based on the properties of each file, one of the following actions occurs:

- Move the file to a new directory using the **FTP Rename File** activity.
- Rename the file using the **FTP Rename File** activity.
- Delete the file using the **FTP Delete File** activity.

To open, view, and learn more about the **FTPParseDirListingExample**:

### Procedure

1. Extract the **FTPParseDirListingExample** project:
  - a. Find the Default Create Path defined in Studio, the directory that new projects are created in. To view the current Default Create Path, select File > Preferences... from the Studio toolbar menu. The Preferences window is displayed. The current Default Create Path displays at the end of the pane. By default, the Default Create Path is located in the following directory: C:\Documents and Settings\ *myLogin*\My Documents Where *myLogin* represents your Windows login name.
  - b. Find the **FTPParseDirListingExample.zip** file that contains the files that make up the **FTPParseDirListingExample** project. If you accepted the defaults during the installation of Studio, this file is located in the following directory: C:\Program Files\IBM\WebSphere Cast Iron Studio 3.X\Samples\FTPParseDirListing
  - c. Copy the **FTPParseDirListingExample.zip** file from the **FTPParseDirListing** directory to the Default Create Path directory.
  - d. Extract the contents of **FTPParseDirListingExample.zip** file into the Default Create Path directory.
2. Open the **FTPParseDirListingExample** project:
  - a. Select File > Open Project... from the Studio toolbar menu. The Open dialog box is displayed.
  - b. Browse for and open the **FTPParseDirListingExample** directory.
  - c. Click on the **FTPParseDirListingExample.sp3** file and click Open. The project is displayed.
3. In the Project tab, double-click the **processBids** orchestration. The **processBids** orchestration tab displays the activities of the orchestration, as shown in the following figure:



directory listing. For this example, clear the List Only Files (NLST) check box.

6. Expand the **If...Then** activity. During run time, this activity checks the value of the fullDirectoryListing string variable and if the value is empty, the **If** path is run and the orchestration ends. If the fullDirectoryListing string is not empty, the **Else** path is run and the orchestration parses the directory.
7. Click the **Read Flat File** activity. Click the **Map Inputs** task in the **Checklist**. During run time, the long directory listing created in the **FTP List Files** activity, is passed to the **Read Flat File** activity via the **Data** input parameter.
8. Click the **Map Outputs** task in the **Checklist**. During run time, the **Read Flat File** activity parses the directory string into the repeating node structure displayed in the **Map Outputs** task.
9. Click the **For Each** activity. During run time, the **For Each** activity iterates through the repeating node structure that stores the directory listing. Each iteration is equivalent to a single file and the properties of that file.
10. Click the **Map Variables** activity. During run time, the **Map Variables** activity converts the size of the current file into a decimal number.
11. Click on the **If..Then** activity. During run time, the **If..Then** activity starts the following **If..Then** branches.

## Results

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- If the size of the file is equal to 0, the **FTP Rename File activity** moves the file to the /processFailed directory and renames the file by adding the ERROR prefix to the file name.
- If the file name contains a string representing one of the approved supplies (AcmeInc or WidgetRUs), the **FTP Rename File activity** based on the file name, moves the file to the appropriate directory either /processAcmeInc or /processWidgetRUs.
- If the file name contains the string representing the Budget Manufacture supplier, the **FTP Delete File activity** removes the file because Budget Manufacture is on the unapproved supplier list.
- If the file is not processed by any of the three previous conditions, the **Else** clause is called and the **FTP Rename File activity** moves the file to the /processNewCompany directory.

To run the Parse Directory Listing Example, see the procedures provided in the [Configuring the FTP Endpoint for the Parse Directory Listing Example](#) section.

**Parent topic:** [FTP Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Parse\\_Directory\\_Listing\\_Example.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Parse_Directory_Listing_Example.html)

## Testing an FTPS server connection

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After successfully running a "test connection", you can use Studio verify tools on FTPS orchestrations before publishing a project.

### About this task

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If you configure an endpoint that represents an FTPS server, you can use it in a Studio project to create orchestrations. You will not, however, be able to verify the orchestration behavior in Studio until you import a copy of the FTPS certificate into Studio, as detailed in this help topic.

Note: The following procedure refers to a FTPS server named: <ftps> in a domain named "<domain.com>".

To test an FTPS Server connection:

### Procedure

---

1. Open a command window.
2. Navigate to the FTPS host, and locate the certificate file ca-cert stored in the FTP server <ftps>, in this directory:  
/var/www/covalent/servers/<ftps.domain.com>/ssl/caerts/castiron\_ca\_cert.pem
3. Substitute the actual server and domain name of your FTPS installation.

4. Copy this file and navigate to the Studio workstation.
5. Using the command window, paste the ca-cert copy in the home directory of Studio: C:\Program Files\IBM\WebSphere Cast Iron Studio x.x.x
6. Navigate to the security directory of Studio: C:\Program Files\IBM\WebSphere Cast Iron Studio x.x.x\security
7. Run the following command to import the ca-cert file into Studio: ..\jre\bin\keytool.exe -import -v -keystore cacerts -storepass changeit -file ..\castiron\_ca\_cert.pem -alias alias\_name
8. When you are prompted for a yes or no, type yes (Y) and press Enter.
9. Exit the command window.
10. Restart Studio.
11. Open the endpoint for this FTPS server.
12. Verify the following login credentials for the FTPS connection: FTP server, Port, User, and Password.
13. Click Test Connection. If the connection is successful, use this endpoint in Studio orchestrations, then use the Verify tab features to evaluate the orchestration.

**Parent topic:** [FTP Activities](#)

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## HTTP Activities

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- [Creating or editing an HTTP endpoint](#)

HTTP endpoints provide the connection information that Studio and the Integration Appliance use to connect to an HTTP server. An HTTP endpoint also specifies the connection information so the Integration Appliance can act as HTTP listener. Â

- [HTTP Receive Request activity](#)

Use the **HTTP Receive Request** activity to configure the Integration Appliance to act as an HTTP listener

- [Decompression with the HTTP Receive Request activity](#)

The **HTTP Receive Request** activity supports decompression with the gzip format only. The **HTTP Receive Request** activity does not support the deflate format or the common UNIX file compression format called compress.

- [HTTP Send Response activity](#)

The **HTTP Send Response** activity sends a reply back to the sender of an HTTP request.

- [Compression/Decompression with the HTTP Send Response activity](#)

During runtime, the **HTTP Send Response** activity sends an HTTP response compliant with the HTTP/HTTPS 1.0 protocol to the HTTP client.

- [HTTP Post Request activity](#)

The **HTTP Post Request** activity sends a **Post Request** to the specified location (the HTTP endpoint) and receives an HTTP response back from that location.

- [HTTP Get Request activity](#)

The **HTTP Get Request** activity sends a **Get Request** to the specified location (the HTTP endpoint) and receives a HTTP response back from that location.

- [HTTP Head Request activity](#)

The **HTTP Head Request** activity sends a **Head Request** to the specified location (the HTTP endpoint) and receives a HTTP response back from that location.

- [HTTP Invoke Request activity](#)

The **HTTP Invoke Request** activity sends a HTTP request to the specified location, the HTTP endpoint, and receives a HTTP response back from that location.

- [HTTP Put Request activity](#)

The **HTTP Put Request** activity sends a **Put Request** to the specified location (the HTTP endpoint) and receives a HTTP response back from that location.

- [HTTP Delete Request activity](#)

The **HTTP Delete Request** activity sends a **Delete Request** to the specified location (the HTTP endpoint) and receives a HTTP response back from that location.

- [Compression/Decompression with the HTTP Invoke/Get/Post/Head/Put/Delete Request activity](#)

During runtime, the **HTTP Invoke/Get/Post/Head/Put/Delete Request** activity sends a HTTP request compliant with the HTTP/HTTPS 1.1 protocol to the HTTP Server.

- **Troubleshooting and support**

Troubleshooting techniques and self-help information help you identify and solve problems quickly. Here, you can find potential solutions for issues you would have with the HTTP connector.

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_HTTPactivities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_HTTPactivities.html)

## Creating or editing an HTTP endpoint

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HTTP endpoints provide the connection information that Studio and the Integration Appliance use to connect to an HTTP server. An HTTP endpoint also specifies the connection information so the Integration Appliance can act as HTTP listener. Â

1. In the Create Endpoint or Edit Endpoint pane, configure the fields as described in the following table.

Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project as the edits are global, not local.

2. When finished, if available click Test Connection to confirm that you can connect to the HTTP server.

Note: The Test Connection button is only available when configuring an endpoint for the HTTP Post Request activity - when Location is set to the Remote Server option.

3. Click OK.

Table 1.

Field Name	Description
<b>Location</b>	Â
Integration Appliance Receives Request	This option specifies that the Integration Appliance is acting as an HTTP listener. For an HTTP endpoint used with the <b>HTTP Receive Request</b> activity, Location is automatically set to the Integration Appliance Receives Request option. Â
Remote Server	This option specifies that the Integration Appliance is sending and receiving requests from a remote HTTP server. For an HTTP endpoint used with the <b>HTTP Post Request</b> activity, Location is automatically set to the Remote Server option.
Host Name	Required for the Remote Server option only - Specify the host name or IP address for the HTTP server that this endpoint connects to.
Port	For the <b>HTTP Receive Request</b> activity - Specify the port number of the Integration Appliance acting as an HTTP listener. For the <b>HTTP Post Request</b> activity - Specify the port number of the remote HTTP server. Â
<b>Login</b>	<b>Description</b>
Log into the Server as an Anonymous User	Available for the Remote Server option only. Select this option to connect to the HTTP server anonymously (where a user account is not required).
Log into the Server with User Name and Password	Available for the Remote Server option only. Select this option to connect to the HTTP server using a user account. Enter the User Name and Password.

Field Name	Description
Authentication	<p>Allows you to select the type of authentication that the Integration Appliance uses when connecting to a remote server. From the list, select one of the following authentication options:</p> <ul style="list-style-type: none"> <li>• <b>Basic</b> - Sends the user name and password you specify unencrypted to the server. This authentication schema is the least secure. Note: Basic authentication is now made available for HTTP Receive Request activity.</li> <li>• <b>Digest</b> - Encrypts the user name and password you specify before sending the user name and password to the server. This authentication option is more secure than Basic authentication.</li> <li>• <b>NTLM</b> - Requires an instance of NTCredentials to be available for the domain name of the server. This authentication is the most secure authentication option. When you choose the NTLM authentication option, the Integration Appliance authenticates a connection and not a request; therefore, the Integration Appliance authenticates every time a new connection is made. The connection must remain open during the authentication process. You cannot use NTLM to authenticate with both a proxy and server. Note: Do not prefix the user name with the domain.</li> <li>• <b>Kerberos</b> - The Kerberos protocol requires a trusted third party which is referred to as the Kerberos server. The Kerberos server name and realm are configured on the WMC Security:Kerberos panel instead of on the HTTP or Web Services end point.</li> </ul>
Realm / Domain	<p>If you select the Basic or Digest authentication option, specify a realm.</p> <p>If you select the NTLM authentication option, specify a domain.</p>
User Name	Available for the Remote Server option only - Specify the User Name for the account used to connect to the HTTP Server.
Password	Available for the Remote Server option only - Specify the Password for the account used to connect to the HTTP Server.
Log into the Server using OAuth 2.0	Description
Grant Type	<p>Cast Iron OAuth2.0 client supports two grants to request an access token. The authorization request can be made directly to the resource owner or through the authorization server.</p> <p>Select one of the following grant types:</p> <ul style="list-style-type: none"> <li>• <b>password</b> - Requires either a combination of Authorization Server URL, Username and password or just the Access Token. If the Access Token is temporary, the authorization server URL, username and password must be provided so as to regenerate the expired access token</li> <li>• <b>authorization_code</b> - Requires an Access Token and/or the combination of Refresh Token and Authorization Server URL in order to refresh temporary access tokens post expiry.</li> </ul>
Scope	Specify the scope of the access request using the scope request parameter. The authorization server uses this to inform the client about the scope of the access token issued.
Username	Specify the user name used to log on to the resource server. For resource owner password credential grant, the user name will be used as a part of the access token request.
Password	Specify the password used to logon to the resource server. For resource owner password credential grant, the password will be used as a part of the access token request.
Client ID	Specify the client ID issued by the authorization server during registration. Client ID is a unique string containing the registration information provided to the client by the authorization server. The client ID is not a secret; it is exposed to the resource owner and must not be used only for client authentication.
Client Secret	Specify the client secret. The client secret is confidential.
Access Token	Specify the Access Token. Access tokens are credentials representing the authorization issued to the client. Tokens represent specific scopes and the duration of access.
Auth Server URL	Specify the Authorization Server URL. Authorization Server URL is the URL for the authorization server or token endpoint responsible for issuing and refreshing access tokens.
Refresh Token	Specify the refresh token. Refresh tokens are used to obtain access tokens when the current access token has expired.
For more information about OAuth 2.0, see <a href="http://tools.ietf.org/html/rfc6749">http://tools.ietf.org/html/rfc6749</a> .	

<b>Field Name</b>	<b>Description</b>
<b>Security</b>	<b>Description</b>
None	Select the None option if no security is required.
HTTPS	<p>Select the HTTPS option to enable secure HTTP over SSL. Â</p> <ul style="list-style-type: none"> <li>Available for the Integration Appliance Receives Request option only - When server authentication is required, select the Server Certificate Alias Name check box to specify that the Integration Appliance acting as a server should provide a certificate to the client. If selected, the name of the certificate must be provided. A certificate specified at the endpoint level with this check box takes precedence over certificates specified on the <b>Security &gt; Certificates &gt; Settings &gt; Server SSL</b> over data NIC entry in the WMC.</li> <li>Available for the Remote Server option only - When client authentication is required, select the Client Certificate Alias Name check box to specify that the Integration Appliance acting as a client should provide a certificate to the HTTP Server. If selected, the name of the certificate must be provided. (For information about how to import a client certificate and private key for use with client authentication, see <a href="#">Importing an end-entity certificate</a>). A certificate specified at the endpoint level with this check box takes precedence over certificates specified on the <b>Security &gt; Certificates &gt; Settings &gt; Client SSL</b> entry in the WMC</li> </ul>
Protocol Version	Select the protocol used for secure HTTP over SSL. By default, the protocol version used is <code>SSL_TLSv2</code> .
<b>Connection Pool Options</b>	
Maximum Connections	Specifies the maximum number of HTTP server connections that the Integration Appliance can keep open in the connection pool. The default value is 25.
<b>Connection Timeout - The following Connection field is available for the Remote Server option only.</b>	
Time out after ___ seconds when establishing a connection to the Endpoint.	The number of seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the Endpoint and the time it takes for the endpoint to respond to the connection request. For an HTTP activity, the amount of time the Integration Appliance attempts to establish a connection to the HTTP Server before timing out. A connection timeout is different from an activity timeout because an activity timeout occurs after the connection to the endpoint has already been established. An activity timeout specifies the amount of time in seconds before a timeout occurs between the activity invoking a request on an endpoint and the time it takes the endpoint to respond. You set the activity timeout in the <b>Retry</b> task of the HTTP Post Request Activity.
<b>Proxy - The following Proxy fields are available for the Remote Server option only.</b>	
<b>Login</b>	<b>Description</b>
Log into the Server as an Anonymous User	Available for the Remote Server option only. Select this option to connect to the HTTP server anonymously (where a user account is not required).
Log into the Server with User Name and Password	Available for the Remote Server option only. Select this option to connect to the HTTP server using a user account. Enter the User Name and Password.

Field Name	Description
Authentication	<p>Allows you to select the type of authentication that the Integration Appliance uses when connecting to a remote server. From the drop-down list, select one of the following authentication options:</p> <ul style="list-style-type: none"> <li>• <b>Basic</b> - Sends the user name and password you specify unencrypted to the server. This authentication schema is the least secure.</li> <li>• <b>Digest</b> - Encrypts the user name and password you specify before sending the user name and password to the server. This authentication option is more secure than Basic authentication.</li> <li>• <b>NTLM</b> - Requires an instance of NTCredentials to be available for the domain name of the server. This authentication is the most secure authentication option as the Integration Appliance authenticates a connection and not a request; therefore, the Integration Appliance authenticates every time a new connection is made. The connection must remain open during the authentication process. You cannot use NTLM to authenticate with both a proxy and server.</li> </ul> <p>Note: Do not prefix the user name with the domain.</p>
Realm / Domain	If you select the Basic or Digest authentication option, specify a realm. If you select the NTLM authentication option, specify a domain.
User Name	Available for the Remote Server option only - Specify the User Name for the account used to connect to the HTTP Server.
Password	Available for the Remote Server option only - Specify the Password for the account used to connect to the HTTP Server.
Security	Description
None	Select the None option if no security is required.
<b>Connection Timeout - The following Connection field is available for the Remote Server option only.</b>	
Time out after ___ second(s) when establishing a connection to the Endpoint.	Specifies the amount of time in seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the endpoint and the time it takes for the endpoint to respond to the connection request. For an HTTP activity, the amount of time the Integration Appliance attempts to establish a connection to the HTTP Server before timing out. A connection timeout is different from an activity timeout because an activity timeout occurs after the connection to the endpoint has already been established. An activity timeout specifies the amount of time in seconds before a timeout occurs between the activity invoking a request on an endpoint and the time it takes the endpoint to respond. You set the activity timeout in <b>Retry</b> task of the HTTP Post Request Activity.
Host	Specifies the host name of the proxy server. This field is required.
Port	Specifies the port number to use to connect to the proxy server. This field is required
Username	Specifies the username to use for proxy server authentication. This field is optional if your proxy server does not require authentication
Password	Specifies the password to use for proxy server authentication. This field is optional if your proxy server does not require authentication.

Note: For some of the fields in the endpoint, you can define configuration properties to supply the values for these fields. The  icon is displayed when you click in a field that supports a configuration property and a configuration property of the same type has already been configured for the project.

**Parent topic:** [HTTP Activities](#)

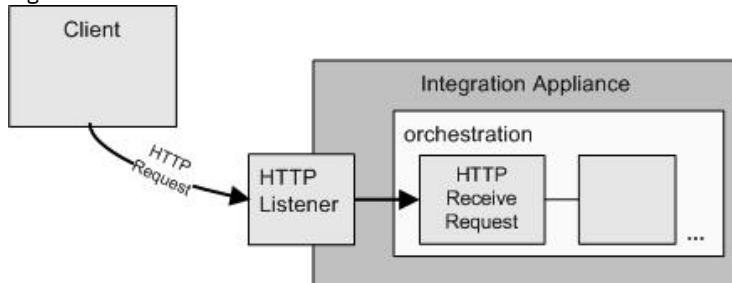
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http\\_create\\_edit\\_endpoint.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http_create_edit_endpoint.html)

## HTTP Receive Request activity

Use the **HTTP Receive Request** activity to configure the Integration Appliance to act as an HTTP listener

The following figure shows the Integration Appliance acting as an HTTP listener.

Figure 1.



The **HTTP Receive Request** activity is a starter activity. When an orchestration that starts with an **HTTP Receive Request** activity is deployed to the Integration Appliance, the Integration Appliance acts as an HTTP listener waiting for HTTP requests. When a HTTP request is received, the following actions occur:

1. An orchestration job is started.
2. The **HTTP Receive Request** activity processes the incoming HTTP request and maps the HTTP request to the output parameters of the activity.
3. The output parameters are mapped to the specified orchestration variables. During design time in the **Map Outputs** task of the **Checklist**, the mapping between the output parameters and the orchestration variables is defined.
4. The remaining activities in the orchestration are processed. (In the graphical representation of the orchestration, the remaining activities are the activities located on the right side of the **HTTP Receive Request** activity).

By default, decompression is enabled for the **HTTP Receive Request** activity. For more information, see [Decompression with the HTTP Receive Request activity](#).

You cannot deploy two **HTTP Receive Request** activities to the appliance with the same endpoint details, URL and method.

### For single **HTTP Receive Request** activity

If you deploy only one **HTTP Receive Request** activity for a URL, the orchestration accepts all requests of those URLs starting with that *base URL*. For example, if you deploy `/customer` then it accepts requests for `/customer`, `/customer/21`, `/customer/21/dept`, and so on.

If you deploy an **HTTP Receive Request** activity for a URL with path parameters, then the orchestration accepts only those requests whose URLs match with the configured URL with values for path parameters. For example, if you deploy `/customer/{custid}` then it accepts requests such as `/customer/10`, `/customer/21`, `/customer/dept`. The following URLs are not accepted: `/customer`, `/customer/21/dept`, and so on.

### For multiple **HTTP Receive Request** activities

If you deploy two **HTTP Receive Request** activities that are configured with the same base URL, and one with path parameter, then the activities accept requests whose URLs strictly match with the configured URL. For example, if you deploy `/customer` and `/customer/{path parameter}`, and if `/customer` is invoked the request goes to the activity configured with `/customer`. If `/customer/007` is invoked, the request goes to the activity configured with `/customer/{path parameter}`. Also, if you invoke the following URLs: `/customer/dept/1` or `/customer/12/21`, none of the activities accept the requests.

Note: If you deploy two activities, the first one as `/customer/department` and the second one as `/customer/{path parameter}`, and if `/customer/department` is invoked, then the request goes to the activity which was deployed first (`/customer/department`). If `/customer/{path parameter}` is deployed first, then the request goes to `/customer/{path parameter}`.

Note: It is also recommended that you do not deploy the same URL for Web Services and HTTP.

*Base URL* - Part of the URL before path parameters. For example - If the configured URL is `/employee/manager/{id}`, then Base URL will be `/employee/manager`.

## Adding an HTTP Receive Request activity to the orchestration

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1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the HTTP folder.
3. Drag the **Receive Request** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed with the **Summary** task active in the properties pane. The Properties pane is located under the graphical representation of the orchestration in the Workspace.

## Creating, selecting, or editing an HTTP endpoint

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1. Click **Pick Endpoint** task from the **Checklist** and choose from one of the following actions:
  - Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK. Skip to the "Configure the activity" procedure.
  - Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint pane is displayed.
  - Create a new endpoint: Select New. The Create Endpoint pane is displayed.
2. Create or edit a HTTP endpoint, see [Creating or editing an HTTP endpoint](#).

## Configuring the activity

---

1. Select the **Configure** task from the **Checklist**. The Configure pane is displayed.
2. Configure all the fields and check boxes in this pane as described in the following table:

Table 1.

Field	Description
URL Path	<p>Specifies the resource path where the Integration Appliance listens for inbound HTTP requests, for example: /mypath. The string you specify in this field must exclude the string: http://, the hostname, and the port number of the Integration Appliance. The full URL that the Integration Appliance uses to listen for inbound HTTP requests is automatically constructed from the hostname of the Integration Appliance, the port number specified in the HTTP endpoint, and the path specified in this field. For example, if the full URL that the Integration Appliance listens for HTTP requests is http://myAR:myPort/myPath, in this field you only need to specify the string: /myPath. The specified path must be unique for the HTTP <b>Receive Request</b> activities that are deployed at the same time on the same Integration Appliance using the same port.</p> <p>To make use of path parameters and query parameters, enter a URL in this format, url/ {path}?name1=value1&amp;name2=value2. This allows you to map a string value to the "{path}" parameter and to specify query parameter names: name1 and name2 in this example. If you choose to declare multiple "{path}" parameters, it is recommended that each parameter has a unique name. Parameters with the same name are represented by only one node in the map. The path parameters are displayed under /httpheaders/pathParameters in Map Output. Query parameters are displayed under /httpheaders/queryParameters in Map output.</p> <p>Note: In the URL, any value assigned to a query parameter is not passed to the mapper. The value comes from the server based on the actual incoming request.</p> <p>Note: The path that the Integration Appliance listens for inbound HTTP requests is a resource path string that you specify and does not correspond to actual directory path on the Integration Appliance.</p>
Method	Specifies which HTTP method is accepted by the listening server.
Of Type	Specifies the expected message type of the HTTP request - either Text or Binary.
Requires a Reply	Specifies if a reply should be sent to the sender of the request. Note: If this check box is selected, you must add and configure a HTTP <b>Send Response</b> activity in your orchestration.

File Id	Description
Use Compression/Decompression	Specifies if compression/decompression is turned on or off at the activity level. By default, the Use Compression/Decompression check box is clear and compression/decompression is disabled for this activity. Select the Use Compression/Decompression check box to enable compression/decompression for this activity. For more information, see <a href="#">Compression/Decompression with the HTTP Invoke/Get/Post/Head/Put/Delete Request activity</a>

## Specifying the request headers

1. Select the **Request Headers** task from the Checklist. The **Request Headers** pane is displayed. A **Custom Headers** table is displayed at the top, a **Include pre-defined standard headers** checkbox is displayed in the middle and a **Standard Headers** table is displayed at the bottom.
2. Click the **Add** button to add a header to the **Custom Headers** table. Click on the new entry to enter a header name or select a header name from the drop down list. If the header name is a pre-defined header name, a description is displayed in the **Description** column, otherwise enter your own description for your headers.
3. To use the pre-defined standard headers, check the **Include pre-defined standard headers** checkbox. Note that duplicate header names are not allowed (ignoring the case difference) and you may be prompted to remove any duplicate headers in the **Custom Headers** table. The selected HTTP headers are displayed under /httpheaders in Map Output.

## Specifying Swagger information

1. Select the Swagger task from the **Checklist** to set sample message.
2. Specify the Request sample (JSON) and Response sample (JSON) information. If you do not specify any request sample, the Swagger Output will display with empty sample objects.
3. Click on Generate Swagger button which will display the code in the Swagger Output textbox. You can also click Download Swagger to download and share the file, if required.

## Mapping the output of the activity

1. Select the **Map Outputs** task in the **Checklist**. The output parameters of the activity are displayed in the From Activity pane of the **Map Outputs** task as described in the following table:

Table 2.

Output Parameter	Description
httpheaders	Specifies the header of the HTTP request.
body	Specifies the body of the HTTP request message.

The following table defines the nodes of the optional httpheaders output parameter. ^

Table 3.

Nodes of the httpheaders Output Parameter	Description
httpheaders/uri	Specifies the resource path of the incoming request, for example: /myPath.
httpheaders/method	Specifies the type of HTTP request.
httpheaders/host	Specifies the IP address or the host name of the client.
httpheaders/otherHeaders/headerItem	Specifies an element that contains a set of HTTP header parameters as name/value pairs. Multiple HTTP header parameters can be specified in the HTTP request, so this is a recurring node.
httpheaders/<configured_header_name>	If you configured at least one request header in Request Headers step, each is displayed here. <configured_header_name> is replaced with the actual header names you selected or entered.

Nodes of the httpheaders Output Parameter	Description
httpheaders/pathParameters	If you configured path parameters in the URL in the Configure step, each is displayed here. If no path parameter is specified, this node does not display.
httpheaders/queryParameters	If you configured query parameters in the URL in Configure step, each is displayed here. If no query parameter is specified, this node does not display.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP header parameter.
httpheaders/otherHeaders/headerItem/value	Specifies the value of the HTTP header parameter.

2. Create a map between the output parameter or parameters of the activity and orchestration variable or variables. See [Creating a map](#) for general instructions on mapping.

Note: To test your orchestration that starts with the **HTTP Receive Request** activity, you can use the HTTP Post Utility included with the Studio installation, to send HTTP requests to the listening Integration Appliance during run time. You can access the HTTP Post Utility from the start menu, select Programs > IBM > Cast Iron Studio > HTTP Post Utility option. The URL you specify in the URL of the inbound connector field must contain the full URL, for example: <http://myAR:myPort/myPath>.

**Parent topic:** [HTTP Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http\\_receive\\_request\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http_receive_request_activity.html)

## Decompression with the **HTTP Receive Request** activity

The **HTTP Receive Request** activity supports decompression with the gzip format only. The **HTTP Receive Request** activity does not support the deflate format or the common UNIX file compression format called compress.

The **HTTP Receive Request** activity only supports receiving HTTP requests using HTTP/HTTPS 1.0 protocol.

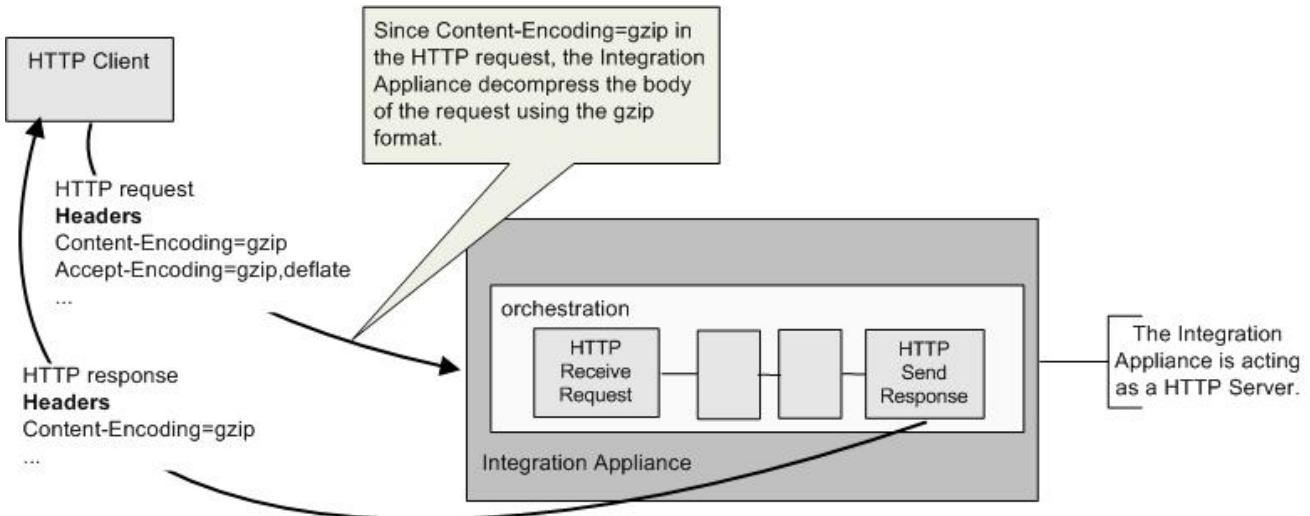
The decompression runtime behavior of the **HTTP Receive Request** activity when receiving a HTTP request is dependant on the following conditions:

- [The value of the Content-Encoding at the message level](#)
- [The setting of the Use Compression/Decompression check box at the activity level](#)

The affect of these conditions on the decompression runtime behavior of the **HTTP Receive Request** activity are described in the following sections and in the table provided in the [runtime Decompression Behavior](#) section.

### Content-Encoding value at the message level

The value of the Content-Encoding HTTP Header Parameter of the HTTP request can determine if the Integration Appliance decompresses the body of the HTTP request that is received from the HTTP Client as shown in the following figure.



The value of the Content-Encoding header is represented by the third column labeled **Content-Encoding Value** in the table provided in the [Run-time Decompression Behavior](#) section.

## Setting decompression at the activity level

By default, decompression is turned on at the activity level for the **HTTP Receive Request** activity. You can turn off decompression at the activity level by selecting the Use Compression/Decompression check box. The Use Compression/Decompression check box is available in the **Configure** task of the activity. The second column labeled Use Compression/Decompression Check Box in the table provided in the [runtime Decompression Behavior](#) section, represents the setting of the Use Compression/Decompression check box.

Â

## runtime decompression behavior

The following table describes the decompression runtime behavior when the Integration Appliance receives a HTTP request from the HTTP Client:

<b>Use Compression/Decompression Check Box (Activity Level) Â</b>	<b>Content-Encoding Value (Message Level)</b>	<b>Integration Appliance Decompression runtime Behavior</b>
selected	gzip	The Integration Appliance decompresses the body of the request using the gzip format. The value of Content-Encoding is set to gzip in the httpheaders output parameter returned from the activity.
selected	not set	The Integration Appliance sends the body of the request as is (unchanged). The value of Content-Encoding is not set in the httpheaders output parameter returned from the activity. Â Â
selected	identity	The Integration Appliance does not decompress the body of the request. The value of the Content-Encoding is set to identity in the httpheaders output parameter returned from the activity.
selected	any other string besides gzip or identity	The Integration Appliance sends the 415 (Unsupported Media Type) Response Code.
cleared	value is not significant	The Integration Appliance does not decompress the body of the request and the current value of Content-Encoding in the request is passed as is to the <b>httpheaders</b> output parameter of the activity. For example, if the value of the Content-Encoding is set to gzip but the Use Compression/Decompression check box is cleared, the Integration Appliance does not decompress the body of the request but Content-Encoding is set to gzip in the httpheaders output parameter of the activity.

Note: The Use Compression/Decompression check box will be deprecated in a future release. Use the Content-Encoding HTTP Parameter in the HTTP request to specify how to decompresses the body of the HTTP request.

**Parent topic:** [HTTP Activities](#)

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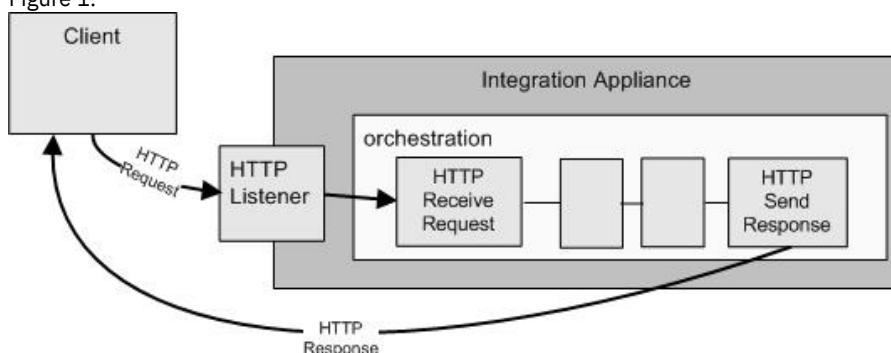
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/decompression\\_with\\_the\\_http\\_receive\\_request\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/decompression_with_the_http_receive_request_activity.html)

## HTTP Send Response activity

The **HTTP Send Response** activity sends a reply back to the sender of an HTTP request.

The following figure shows the **HTTP Send Response** activity sending a reply back to the sender of an HTTP request.

Figure 1.



The **HTTP Send Response** activity must be used in conjunction with an **HTTP Receive Request** activity in an orchestration as shown in the preceding figure. If you add a **HTTP Send Response** activity to orchestration, you must select the Requires a Reply check box in the **Configure** task of the **HTTP Receive Request** activity.

By default, compression is not enabled for the **HTTP Send Response** activity. For more information, see [Compression/Decompression with the HTTP Send Response activity](#).

### Adding an **HTTP Send Response** activity to the orchestration

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the HTTP folder.
3. Drag the **Send Response** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed with the **Configure** task active in the properties pane. The properties pane is located beneath the graphical representation of the orchestration.

### Configuring the activity

1. Select the **Configure** task from the **Checklist**. The Configure pane is displayed.
2. Configure all the fields and check boxes in this pane as described in the following table:

Table 1.

Field	Description
To	Specifies the <b>HTTP Receive Request</b> activity associated with this <b>HTTP Send Response</b> activity. During run time, the associated <b>HTTP Receive Request</b> activity receives the request from the client and the <b>HTTP Send Response</b> activity sends the response back to the client. Note: This field is populated only if you select the Requires a Reply check box in the <b>Configure</b> task of the <b>HTTP Receive Request</b> activity.
Of Type	Specifies the message type of the HTTP response - either Text or Binary.

Field	Description
Use Compression/Decompression	Specifies if compression/decompression is turned on or off at the activity level. By default, the Use Compression/Decompression check box is clear and compression/decompression is disabled for this activity. Select the Use Compression/Decompression check box to enable compression/decompression for this activity. For more information, see <a href="#">Compression/Decompression with the HTTP Invoke/Get/Post/Head/Put/Delete Request activity</a> .

## Specifying the response headers

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1. Select the **Response Headers** task from the Checklist. The **Response Headers** pane is displayed. A **Custom Headers** table is displayed at the top, a **Include pre-defined standard headers** checkbox is displayed in the middle and a **Standard Headers** table is displayed at the bottom.
2. Click the **Add** button to add a header to the **Custom Headers** table. Click on the new entry to enter a header name or select a header name from the drop down list. If the header name is a pre-defined header name, a description is displayed in the **Description** column, otherwise enter your own description for your headers.
3. To use the pre-defined standard headers, check the **Include pre-defined standard headers** checkbox. Note that duplicate header names are not allowed (ignoring the case difference) and you are prompted to remove any duplicate headers in the **Custom Headers** table. The selected HTTP headers are displayed under /httpheaders in Map Input.

## Mapping the input into the activity

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1. Select the **Map Inputs** task in the **Checklist**. The body input parameter is displayed in the To Activity pane of the **Map Inputs** task. The body input parameter is mandatory and at least one variable must be mapped to it. The body input parameter contains the body of the HTTP response message sent back to the client.
2. To view the optional input parameter in the To Activity pane of the Map Inputs pane, select Map > Show Optional Parameters from the toolbar menu or right-click in the To Activity pane and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click on a node in the Map Inputs pane to make this option active. The httpheaders input parameter is displayed.

The following table defines the nodes of the optional httpheaders input parameter:

Table 2.

Nodes of the httpheaders Input Parameter	Description
httpheaders/uri	Specifies the resource path, for example: /myPath.
httpheaders/method	Specifies the type of HTTP response, for example: POST.
httpheaders/Via	Contains the time taken by each of the activities present between HTTP Receive and HTTP Send Response. For example, FTP Put(uploadfile):50ms;Send Email(postinfo):30ms;. There are two activities, FTP Put and Send Email, that are present between HTTP Receive and HTTP Send Response activities. So, when a job is processed, the <b>Via</b> header response will contain this value. It means that FTP Put activity takes 50 milliseconds and the Send Email activity takes 30 milliseconds, respectively, to complete the activity.
httpheaders/<configure d_header_name>	If you configured at least one response header in Response Headers step, each is displayed here. <configured_header_name> is replaced with the actual header name you selected or entered.
httpheaders/otherHeaders/headerItem	Specifies an element that contains a set of HTTP header parameters as name/value pairs for the HTTP response. Multiple HTTP parameters can be specified in the HTTP response, so this is a recurring node.

Nodes of the httpheaders Input Parameter	Description
httpheaders/otherHeaders/headers/holderItem/name	Specifies the name of the HTTP parameter.
httpheaders/otherHeaders/headers/holderItem/value	Specifies the value of the HTTP parameter.

3. Create a map between the orchestration variable or variables and the input parameter or parameters. See [Creating a map](#) for general instructions on mapping

## Using certificates with Microsoft Internet Explorer

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If you have selected the HTTPS security option in the HTTP endpoint, note that Microsoft Internet Explorer does not recognize a modified certificate and caches the SSL state. If you modify certificates, you must clear the SSL state. To clear the SSL state in Microsoft Internet Explorer:

1. From the Microsoft Internet Explorer toolbar menu, select Tools > Internet Options.... The Internet Options pane is displayed.
2. Click the Content tab.
3. In the **Certificates** section, click Clear SSL State. The SSL Cache Cleared Successfully dialog box is displayed.
4. Click OK and click OK.

**Parent topic:** [HTTP Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http\\_send\\_response\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http_send_response_activity.html)

## Compression/Decompression with the HTTP Send Response activity

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During runtime, the **HTTP Send Response** activity sends an HTTP response complaint with the HTTP/HTTPS 1.0 protocol to the HTTP client.

Note: The **HTTP Send Response** activity supports compression with the gzip format only. It does not support the deflate format or the common UNIX file compression format called compress.

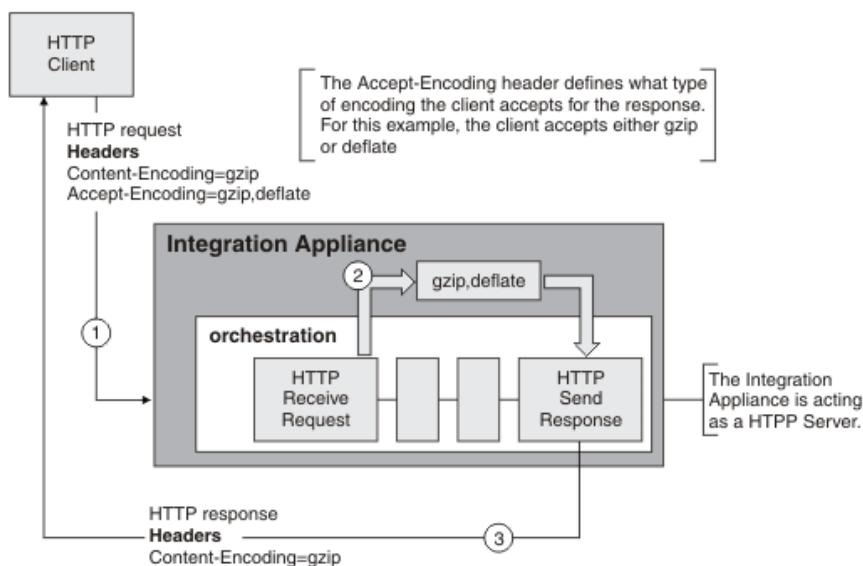
The compression runtime behavior of the **HTTP Send Response** activity is dependant on the following conditions:

- At the message level, the value of the Accept-Encoding header in the original HTTP request received by the **HTTP Receive Request** activity is passed to the **HTTP Send Response** activity to determine if the body of the HTTP response is compressed or not compressed as shown in the following figure.
- The setting of the Use Compression/Decompression check box at the activity level

The affect of these conditions on the compression runtime behavior of the **HTTP Send Response** activity are described in the following sections and in the table provided in the [runtime Compression Behavior](#) section.

## Accept-Encoding value at the message level

During runtime, a **HTTP Receive Request** activity receives a HTTP request from a HTTP client. In the same orchestration, a **HTTP Send Response** activity sends a HTTP response back to the original client. The value of the Accept-Encoding header in the original request received by the **HTTP Receive Request** activity is stored internally on the Integration Appliance. The stored value is passed to the **HTTP Send Response** activity and is used to determine if the body of the response is compressed or not and the encoding type, as shown in the following figure.



If values for the Content-Encoding or Accept-Encoding headers are explicitly set using the optional httpheaders input parameter of the **HTTP Send Response** activity, these new values override the default settings of these headers passed-in via the request. For example, if Accept-Encoding is set to gzip,deflate in the request but is explicitly set to identity in the httpheaders input parameter of the **HTTP Send Response** activity, the Integration Appliance does not compress the body of the response.

To explicitly set the Accept-Encoding header, provide the following values in a **headerItem** node in the **Map Inputs** task of the **HTTP Post Request** activity:

- `httpheaders/httpheaders/otherHeaders/headerItem/name` is set to the string: `Accept-Encoding`
- `httpheaders/httpheaders/otherHeaders/headerItem/value` is set to the encoding type, for example the string: `identity`.

## Setting Compression/Decompression at the activity level

By default, compression is turned on at the activity level for the **HTTP Send Response** activity. You can turn off compression at the activity level by clearing the Use Compression/Decompression check box. The Use Compression/Decompression check box is available in the **Configure** task of the activity. The second column labeled **HTTP Compression CLI Command** in the following table represents the setting of the Use Compression/Decompression check box.

## Runtime compression behavior

The following table describes the compression runtime behavior when the Integration Appliance sends a HTTP response to the HTTP Client:

Use Compression/Decompression Check Box (Activity Level)	Accept-Encoding Value of the HTTP Request (Message Level)	Integration Appliance Compression Runtime Behavior
selected	gzip or gzip,deflate	The Integration Appliance sends the body of the response compressed in the gzip format and the Content-Encoding header is set to gzip in the response.
selected	identity	The Integration Appliance sends the body of the response uncompressed and the Content-Encoding header is set to identity in the response.
selected	not set, or any other string except gzip or identity	The Integration Appliance sends the body of the response uncompressed and the Content-Encoding header is set to identity in the response.

<b>Use Compression/ Decompression Check Box (Activity Level) Â</b>	<b>Accept-Encoding Value of the HTTP Request (Message Level)</b>	<b>Integration Appliance Compression Runtime Behavior</b>
cleared	value is not significant	The Integration Appliance sends the body of the response as is (unchanged) and the Content-Encoding header is as is in the response. (The value of the Content-Encoding header in the request is passed unchanged to the response.)

Note: The Use Compression/Decompression check box will be deprecated in a future release. Use the Content-Encoding and Accept-Encoding HTTP Parameters in the HTTP request to specify how to decompresses the body of the HTTP request and compress the body of the HTTP response.

**Parent topic:** [HTTP Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/compression\\_with\\_the\\_http\\_send\\_response\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/compression_with_the_http_send_response_activity.html)

## HTTP Post Request activity

The HTTP **Post Request** activity sends a **Post Request** to the specified location (the HTTP endpoint) and receives an HTTP response back from that location.

### Adding an HTTP Post Request activity to the orchestration

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the HTTP folder.
3. Drag the **Post Request** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed.

### Creating, selecting or editing an HTTP endpoint

1. Click **Pick Endpoint** task from the **Checklist** and choose from one of the following actions:
  - o Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK. Skip to the "Configure the activity" procedure.
  - o Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint pane is displayed.
  - o Create a new endpoint: Select New. The Create Endpoint pane is displayed.
2. Create or edit a HTTP endpoint, see [Creating or editing an HTTP endpoint](#).

### Configuring the activity

1. Select the **Configure** task from the **Checklist**. The Configure pane is displayed.
2. Configure all the fields and check boxes in this pane as described in the following table:

Table 1.

Field or Check Box	Description

Field or Check Box	Description
URL (Path after Hostname)	<p>Specifies the resource path that the <b>Post Request</b> activity sends the request to, for example: /mypath. The string you specify in this field must exclude the string: http://, the host name, and the port number of the Integration Appliance. The full URL is automatically constructed from the host name of the Integration Appliance, the port number specified in the HTTP endpoint, and the path specified in this field. For example, if the full URL that the <b>Post Request</b> activity sends the request to is http://myAR:myPort/myPath, in this field you only need to specify the string: /myPath. The specified path must be unique for the <b>Post Request</b> activities that are deployed at the same time on the same Integration Appliance using the same port.</p> <p>To make use of path parameters and query parameters, enter a URL in this format:url/{path}?name1=value1&amp;name2=value2. This allows you to map a string value to the "{path}" parameter and to specify query parameter names: <i>name1</i> and <i>name2</i> in this example. If you choose to declare multiple "{path}" parameters, each parameter should have a unique name. Parameters with the same name are represented by only one node in the map. The path parameters are displayed under /httpheaders/pathParameters in Map Input. Query parameters are displayed under /httpheaders/queryParameters in Map Input.</p> <p>Note: In the URL, any value you assign to a query parameter is not passed to the mapper. To assign a value to the query parameter, either explicitly map a value to the query parameter in the mapper or define a default value.</p>
Where Request Message is Of Type	Specifies the expected message type of the HTTP request - either Text or Binary. Â
Where Reply Message is Of Type	Specifies the message type of the HTTP reply - either Text or Binary. Â
Stop Processing the Orchestration Job or Continue Processing and Return the HTTP Error code	<p>Specifies the run time behavior of the activity if an error response is returned from the HTTP Server:</p> <ul style="list-style-type: none"> <li>○ <b>Stop Processing the Orchestration Job</b> - Select this option if the orchestration job should stop processing when an error response is received from the HTTP Server during run time. The orchestration stops processing in the <b>Post Request</b> activity and the activities after the <b>Post Request</b> activity in the orchestration are not processed and a failed exception is thrown.</li> <li>○ <b>Continue Processing and Return the HTTP Error code</b> - Select this option if the orchestration job should continue processing when an error response is received from the HTTP Server during run time. The orchestration job should continue processing activities after the <b>Post Request</b> activity in the orchestration and the error response code and the error response message is returned in the responsecode and responsemessag output parameters, respectively.</li> </ul>
Use Compression/Decompression	Specifies if compression/decompression is turned on or off at the activity level. By default, the Use Compression/Decompression check box is clear and compression/decompression is disabled for this activity. Select the Use Compression/Decompression check box to enable compression/decompression for this activity. For more information, see <a href="#">Compression/Decompression with the HTTP Invoke/Get/Post/Head/Put/Delete Request activity</a> .

## Specifying the request headers

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1. Select the **Request Headers** task from the Checklist. The **Request Headers** pane is displayed. A **Custom Headers** table is displayed at the top, a **Include pre-defined standard headers** checkbox is displayed in the middle and a **Standard Headers** table is displayed at the bottom.
2. Click the **Add** button to add a header to the **Custom Headers** table. Click on the new entry to enter a header name or select a header name from the drop down list. If the header name is a pre-defined header name, a description is displayed in the **Description** column, otherwise, enter your own description for your headers.
3. To use the pre-defined standard headers, check the **Include pre-defined standard headers** checkbox. Note that duplicate header names are not allowed (ignoring the case difference) and you are prompted to remove any duplicate headers in the **Custom Headers** table. The selected HTTP headers are displayed under /httpheaders in Map Input.

## Specifying the response headers

---

1. Select the **Response Headers** task from the Checklist. The **Response Headers** pane is displayed. A Custom Headers table is displayed at the top, a **Include pre-defined standard headers** checkbox is displayed in the middle, and a **Standard Headers** table is displayed at the bottom.
2. Click the **Add** button to add a header to the **Custom Headers** table. Click on the new entry to enter a header name or select a header name from the drop down list. If the header name is a pre-defined header name, a description is displayed in the **Description** column, otherwise, enter your own description for your headers.
3. To use the pre-defined standard headers, check the **Include pre-defined standard headers** checkbox. Note that duplicate header names are not allowed (ignoring the case difference) and you are prompted to remove any duplicate headers in the **Custom Headers** table. The selected HTTP headers are displayed under /httpheaders in Map Output.

## Specifying the retry options

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1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
2. Configure the retry options for connecting to an HTTP Server. The following table defines the retry options for a connection to an HTTP Server:

Table 2.

Fields	Description
<b>Retry</b>	Â
1) Wait -- seconds between each retry.	The number of seconds that the Integration Appliance waits before trying to establish a connection to the HTTP Server.
2) Try to connect -- times before failing.	Specifies the retry count - the maximum number of times the Integration Appliance attempts to establish a connection to the HTTP Server before issuing an error and stopping the processing of the current orchestration job.  If you deploy an orchestration that contains an <b>HTTP Post Request</b> activity and the Integration Appliance cannot connect to the specified HTTP Server, the Integration Appliance logs the connection errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system and orchestration logs and stops processing the current orchestration job.  For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.
<b>Activity Timeout</b>	Â

Fields	Description
3) Time out after --- seconds when the Endpoint does not respond to a request.	Specifies the amount of time in seconds before a timeout occurs between the activity making a request on an Endpoint and the time it takes the Endpoint to respond. For the <b>Post Request</b> activity, the activity timeout is the amount of time that the Integration Appliance waits for a response from the HTTP Server after sending a HTTP request, before the Integration Appliance issues a timeout error. An activity timeout is different from a connection timeout because an activity timeout occurs after the connection to the endpoint has been established. A connection timeout specifies the amount of time in seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the endpoint and the time it takes for the endpoint to respond to the connection request. You set the connection timeout in HTTP Endpoint tab. For more information about connection timeouts, see <a href="#">Creating or editing an HTTP endpoint</a> .

## Mapping the input into the activity

1. Select the **Map Inputs** task in the **Checklist**. The body input parameter is displayed in the To Activity pane of the **Map Inputs** task. The body input parameter is mandatory and at least one variable must be mapped to it. The body input parameter contains the body of the HTTP request message sent to the HTTP server.
2. To view the optional input parameters in the To Activity pane of the Map Inputs pane, select Map > Show Optional Parameters from the toolbar menu or right-click in the To Activity pane and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click on a node in the Map Inputs pane to make this option active. The httpheaders and httpConnParameter input parameters display.

The following table defines the nodes of the optional httpheaders input parameter:

Table 3.

Nodes of the httpheaders Input Parameter	Description
httpheaders/uri	Specifies the resource path, for example: /myPath.
httpheaders/<configured_header_name>	If you configured at least one request header in Request Headers step, each is displayed here. <configured_header_name> is replaced with the actual header names you selected or entered.
httpheaders/pathParameters	If you configured path parameters in the URL in Configure step, each is displayed here. If no path parameter is specified, this node does not display.
httpheaders/queryParameters	If you configured query parameters in the URL in Configure step, each is displayed here. If no query parameter is specified, this node does not display.
httpheaders/otherHeaders/headerItem	Specifies an element that contains a set of HTTP header parameters as name/value pairs. Multiple HTTP header parameters can be specified in the HTTP request, so this is a recurring node.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP header parameter.
httpheaders/otherHeaders/headerItem/value	Specifies the value of the HTTP header parameter.

Note: If the Content-Length header is explicitly set using the httpheaders/otherHeaders/headerItem/name and httpheaders/otherHeaders/headerItem/value, during run time this value is ignored. This activity automatically sets the Content-Length header to the size of the body.

The following table defines the nodes of the optional httpConnParameter input parameter. You can optionally override the settings you specified in the **Pick Endpoint** task of the **Checklist** dynamically during run time by passing in values from variables into the nodes specified in the following table. For example during run time, you can override the Host Name specified in the endpoint, by mapping a variable to the host node of the httpConnParameter input parameter. During run time, the value of the variable is the host name used to connect the HTTP server.

Table 4.

Nodes of the httpConnParameter Input Parameter	Description	Overrides what settings in the HTTP endpoint?
timeout	Specifies the amount of time in seconds before a timeout occurs.	Â

<b>Nodes of the httpConnParameter Input Parameter</b>	<b>Description</b>	<b>Overrides what settings in the HTTP endpoint?</b>
host	Specifies the host name or IP address of the remote HTTP server.	The <b>host</b> node of the httpConnParameter input parameter overrides the Host Name field of the HTTP endpoint.
port	Specifies the port number of the remote HTTP server.	The <b>port</b> node of the httpConnParameter input parameter overrides the Port field of the HTTP endpoint.
isSecure	Set this boolean equal to true to enable HTTPS - secure HTTP over SSL. Set this boolean equal to false to disable security.	The <b>isSecure</b> node of the httpConnParameter input parameter overrides the Security option in the HTTP endpoint.
username	Specifies the user name for the account used to connect to the HTTP server.	The <b>username</b> node of the httpConnParameter input parameter overrides the User Name field in the HTTP endpoint.
password	Specifies the password for the account used to connect to the HTTP Server.	The <b>password</b> node of the httpConnParameter input parameter overrides the Password field in the HTTP endpoint.

3. Create a map between the orchestration variable or variables and input parameter or parameters. See [Creating a map](#) for general instructions on mapping.

## Mapping the output of the activity

1. Select the **Map Outputs** task in the **Checklist**. The output parameters of the activity are displayed in the From Activity pane of the **Map Outputs** task as described in the following table:

Table 5.

<b>Output Parameter</b>	<b>Description</b>
httpheaders	Specifies the header of the HTTP response.
body	Specifies the body of the HTTP response message.
responsecode	Specifies the HTTP Response Code that is returned from the HTTP Server during run time.
responsemessage	Specifies the message associated with the HTTP Response Code.

The following table defines the nodes of the httpheaders output parameter:

Table 6.

<b>Nodes of the httpheaders Output Parameter</b>	<b>Description</b>
httpheaders/uri	Specifies the resource path, for example: /myPath.
httpheaders/<configured_header_name>	If you configured at least one response header in Response Headers step, each is displayed here. <configured_header_name> is replaced with the actual header names you selected or entered.
httpheaders/otherHeaders/headerItem	Specifies a set of name/value pairs that contain the HTTP parameters of the HTTP response. Multiple HTTP parameters can be specified in the HTTP response, so headerItem is a recurring node.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP parameter.
httpheaders/otherHeaders/headerItem/value	Specifies the value of the HTTP parameter.

2. Create a map between the output parameter or parameters of the activity and orchestration variable or variables. See [Creating a map](#) for general instructions on mapping.

## Using certificates with Microsoft Internet Explorer

If you have selected the HTTPS security option in the HTTP endpoint, note that Microsoft Internet Explorer does not recognize a modified certificate and caches the SSL state. If you modify certificates, you must clear the SSL state. To clear the SSL state in Microsoft Internet Explorer:

1. From the Microsoft Internet Explorer toolbar menu, select Tools > Internet Options.... The Internet Options pane is displayed.
2. Click the Content tab.
3. In the **Certificates** section, click Clear SSL State. The SSL Cache Cleared Successfully dialog box is displayed.
4. Click OK and click OK.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http\\_post\\_request\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http_post_request_activity.html)

## HTTP Get Request activity

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The HTTP **Get Request** activity sends a **Get Request** to the specified location (the HTTP endpoint) and receives a HTTP response back from that location.

### Adding an HTTP Get Request activity to the orchestration

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1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the HTTP folder.
3. Drag the **Get Request** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed.

### Creating, selecting, or editing an HTTP endpoint

---

1. Click **Pick Endpoint** task from the **Checklist** and choose from one of the following actions:
  - Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK. Skip to the "Configure the activity" procedure.
  - Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint pane is displayed.
  - Create a new endpoint: Select New. The Create Endpoint pane is displayed.
2. Create or edit a HTTP endpoint. See [Creating or editing an HTTP endpoint](#).

### Configuring the activity

---

1. Select the **Configure** task from the **Checklist**. The Configure pane is displayed.
2. Configure all the fields and check boxes in this pane as described in the following table:

Table 1.

Field or Check Box	Description

Field or Check Box	Description
URL (Path after Hostname)	<p>Specifies the resource path that the <b>Get Request</b> activity sends the request to, for example: /mypath. The string you specify in this field must exclude the string: http://, the hostname, and the port number of the Integration Appliance. The full URL is automatically constructed from the host name of the Integration Appliance, the port number specified in the HTTP endpoint and the path specified in this field. For example, if the full URL that the <b>Get Request</b> activity sends the request to is http://myAR:myPort/myPath, in this field, you only need to specify the string: /myPath. The specified path must be unique for the <b>Get Request</b> activities that are deployed at the same time on the same Integration Appliance using the same port.</p> <p>To make use of path parameters and query parameters, enter a URL in this format: url/{path}?name1=value1&amp;name2=value2. This allows you to map a string value to the "{path}" parameter and to specify query parameter names: <i>name1</i> and <i>name2</i> in this example. If you choose to declare multiple "{path}" parameters, it is recommended that each parameter has a unique name. Parameters with the same name are represented by only one node in the map. The path parameters will be displayed under /httpheaders/pathParameters in Map Input. And query parameters will be displayed under /httpheaders/queryParameters in Map Input.</p> <p>Note: In the URL, any value you assign to a query parameter is not passed to the mapper. To assign a value to the query parameter, either explicitly map a value to the query parameter in the mapper, or define a default value.</p>
Where Request Message is Of Type	Specifies the message type of the HTTP response - either Text or Binary.
Where Reply Message is Of Type	Specifies the message type of the HTTP reply - either Text or Binary..
Stop Processing the Orchestration Job or Continue Processing and Return the HTTP Error code	<p>Specifies the run time behavior of the activity if an error response is returned from the HTTP Server:</p> <ul style="list-style-type: none"> <li>○ <b>Stop Processing the Orchestration Job</b> - Select this option if the orchestration job should stop processing when an error response is received from the HTTP Server during run time. The orchestration stops processing in the HTTP <b>Get Request</b> activity and the activities after the HTTP <b>Get Request</b> activity in the orchestration are not processed and a failed exception is thrown.</li> <li>○ <b>Continue Processing and Return the HTTP Error code</b> - Select this option if the orchestration job should continue processing when an error response is received from the HTTP Server during run time. The orchestration job should continue processing activities after the HTTP <b>Get Request</b> activity in the orchestration and the error response code and the error response message is returned in the responsecode and responsemessage output parameters, respectively.</li> </ul>
Use Compression/Decompression	Specifies if compression/decompression is turned on or off at the activity level. By default, the Use Compression/Decompression check box is clear and compression/decompression is disabled for this activity. Select the Use Compression/Decompression check box to enable compression/decompression for this activity. For more information, see <a href="#">Compression/Decompression with the HTTP Invoke/Get/Post/Head/Put/Delete Request activity</a> .

## Specifying the request headers

---

1. Select the **Request Headers** task from the Checklist. The **Request Headers** pane is displayed. A **Custom Headers** table is displayed at the top, a **Include pre-defined standard headers** checkbox is displayed in the middle and a **Standard Headers** table is displayed at the bottom.
2. Click the **Add** button to add a header to the **Custom Headers** table. Click on the new entry to enter a header name or select a header name from the drop down list. If the header name is a pre-defined header name, a description is displayed in the **Description** column, otherwise, enter your own description for your headers.
3. To use the pre-defined standard headers, check the **Include pre-defined standard headers** checkbox. Duplicate header names are not allowed (ignoring the case difference) and if duplicated headers appear in the **Custom Headers** table, you are prompted to remove them. The selected HTTP headers are displayed under /httpheaders in Map Input.

## Specifying the response headers

---

1. Select the **Response Headers** task from the Checklist. The **Response Headers** pane is displayed. A Custom Headers table is displayed at the top, a **Include pre-defined standard headers** checkbox is displayed in the middle, and a **Standard Headers** table is displayed at the bottom.
2. Click the **Add** button to add a header to the **Custom Headers** table. Click on the new entry to enter a header name or select a header name from the drop down list. If the header name is a pre-defined header name, a description is displayed in the **Description** column, otherwise, enter your own description for your headers.
3. To use the pre-defined standard headers, check the **Include pre-defined standard headers** checkbox. Duplicate header names are not allowed (ignoring the case difference) and if duplicated headers appear in the **Custom Headers** table, you are prompted to remove them. The selected HTTP headers are displayed under /httpheaders in Map Output.

## Specifying the retry options

---

1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
2. Configure the retry options to connect to an HTTP Server. The following table defines the retry options for connecting to an HTTP Server:

Field	Description
Retry	Â
1) Wait --- seconds between n each retry.	Specifies the amount of time (in seconds) that the Integration Appliance waits before trying to establish a connection to the HTTP server.
2) Try to connect --- times before failing.	Specifies the retry count - the maximum number of times the Integration Appliance attempts to establish a connection to the HTTP Server before issuing an error and stopping the processing of the current orchestration job. If you deploy an orchestration that contains an HTTP <b>Get Request</b> activity and the Integration Appliance cannot connect to the specified HTTP Server, the Integration Appliance logs the connections errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.
3) Time out after --- seconds when the Endpoi nt does not respond to a request.	Specifies the amount of time in seconds before a timeout occurs between the activity making a request on an Endpoint and the time it takes the Endpoint to respond. For the HTTP <b>Get Request</b> activity, the activity timeout is the amount of time that the Integration Appliance waits for a response from the HTTP Server after sending a HTTP request, before the Integration Appliance issues a timeout error. An activity timeout is different from a connection timeout because an activity timeout occurs after the connection to the endpoint has been established. A connection timeout specifies the amount of time in seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the endpoint and the time it takes for the endpoint to respond to the connection request. You set the connection timeout in HTTP Endpoint tab. For more information about connection timeouts, see, <a href="#">Creating or Editing a Web Services Endpoint</a> .

## Mapping the input into the activity

1. Select the **Map Inputs** task in the **Checklist**. The body input parameter is displayed in the To Activity pane of the **Map Inputs** task. The body input parameter is optional. The body input parameter contains the body of the HTTP response message sent back to the HTTP server.
2. To view the optional input parameter in the To Activity pane of the Map Inputs pane, select Map > Show Optional Parameters from the toolbar menu or right-click in the To Activity pane and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click on a node in the Map Inputs pane to make this option active. The **httpheaders** and **httpConnParameter** input parameters are displayed.

The following table defines the nodes of the optional **httpheaders** input parameter:

Table 2.

Nodes of the httpheaders Input Parameter	Description
httpheaders/uri	Specifies the resource path, for example: /myPath.
httpheaders/<configured_header_name>	If you configured at least one request header in the Request Headers step, each is displayed here. <configured_header_name> is replaced with the actual header names you selected or entered.
httpheaders/pathParameters	If you configured path parameters in the URL in the Configure step, each is displayed here. If no path parameter is specified, this node does not display.
httpheaders/queryParameters	If you configured query parameters in the URL in the Configure step, each is displayed here. If no query parameter is specified, this node does not display.
httpheaders/otherHeaders/headerItem	Specifies an element that contains a set of HTTP header parameters as name/value pairs. Multiple HTTP parameters can be specified in the HTTP response, so this is a recurring node.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP header parameter.
httpheaders/otherHeaders/headerItem/value	Specifies the value of the HTTP parameter.

Note: If the Content-Length header is explicitly set using the `httpheaders/otherHeaders/headerItem/name` and `httpheaders/otherHeaders/headerItem/value`, this value is ignored during run time. This activity automatically sets the Content-Length header to the size of the body.

The following table defines the nodes of the optional **httpConnParameter** input parameter. You can optionally override the settings you specified in the Pick Endpoint task of the Checklist dynamically during run time by passing in values from variables into the nodes specified in the following table. For example during run time, you can override the Host Name specified in the endpoint, by mapping a variable to the host node of the **httpConnParameter** input parameter. During run time, the value of the variable is the host name used to connect the HTTP server.

Table 3.

Nodes of the httpConnParameter Input Parameter	Description	Overrides what settings in the HTTP endpoint?
timeout	Specifies the amount of time in seconds before a timeout occurs.	A
host	Specifies the host name or IP address of the remote HTTP server.	The host node of the <b>httpConnParameter</b> input parameter overrides the Host Name field of the HTTP endpoint.
port	Specifies the port number of the remote HTTP server.	The port node of the <b>httpConnParameter</b> input parameter overrides the Port field of the HTTP endpoint.
isSecure	Set this boolean equal to true to enable HTTPS - secure HTTP over SSL. Set this boolean equal to false to disable security.	The <b>isSecure</b> node of the <b>httpConnParameter</b> input parameter overrides the Security option in the HTTP endpoint.
username	Specifies the user name for the account used to connect to the HTTP server.	The <b>username</b> node of the <b>httpConnParameter</b> input parameter overrides the User Name field in the HTTP endpoint.

<b>Nodes of the httpConnParameter Input Parameter</b>	<b>Description</b>	<b>Overrides what settings in the HTTP endpoint?</b>
password	Specifies the password for the account used to connect to the HTTP Server.	The password node of the httpConnParameter input parameter overrides the Password field in the HTTP endpoint.

3. Create a map between the orchestration variable or variables and the input parameter or parameters. See [Creating a map](#) for general instructions on mapping

## Mapping the output of the activity

1. Select the **Map Outputs** task in the **Checklist**. The output parameters of the activity are displayed in the From Activity pane of the **Map Outputs** task as described in the following table:

Table 4.

<b>Output Parameter</b>	<b>Description</b>
httpheaders	Specifies the header of the HTTP request.
body	Specifies the body of the HTTP request message.
responsecode	Specifies the HTTP Response Code that is returned from the HTTP Server during run time.
responsemessage	Specifies the message associated with the HTTP Response Code.

The following table defines the nodes of the optional httpheaders output parameter. Â

Table 5.

<b>Nodes of the httpheaders Output Parameter</b>	<b>Description</b>
httpheaders/uri	Specifies the resource path of the incoming request, for example: /myPath.
httpheaders/<configured_header_name>	If you configured at least one response header in Response Headers step, each is displayed here. <configured_header_name> is replaced with the actual header names you selected or entered.
httpheaders/otherHeaders/headerItem	Specifies an element that contains a set of HTTP header parameters as name/value pairs. Multiple HTTP header parameters can be specified in the HTTP request, so this is a recurring node.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP header parameter.
httpheaders/otherHeaders/headerItem/value	Specifies the value of the HTTP header parameter.

2. Create a map between the output parameter or parameters of the activity and orchestration variable or variables. See [Creating a map](#) for general instructions on mapping.

## Using certificates with Microsoft Internet Explorer

If you have selected the HTTPS security option in the HTTP endpoint, note that Microsoft Internet Explorer does not recognize a modified certificate and caches the SSL state. If you modify certificates, you must clear the SSL state. To clear the SSL state in Microsoft Internet Explorer:

1. From the Microsoft Internet Explorer toolbar menu, select Tools > Internet Options.... The Internet Options pane is displayed.
2. Click the Content tab.
3. In the **Certificates** section, click Clear SSL State. The SSL Cache Cleared Successfully dialog box is displayed.
4. Click OK and click OK.

**Parent topic:** [HTTP Activities](#)

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[Feedback](#) | [Notices](#)

## HTTP Head Request activity

The HTTP **Head Request** activity sends a **Head Request** to the specified location (the HTTP endpoint) and receives a HTTP response back from that location.

### Adding an HTTP Head Request activity to the orchestration

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the HTTP folder.
3. Drag the **Head Request** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed.

### Creating, selecting, or editing an HTTP endpoint

1. Click **Pick Endpoint** task from the **Checklist** and choose from one of the following actions:
  - o Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK. Skip to the "Configure the activity" procedure.
  - o Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint pane is displayed.
  - o Create a new endpoint: Select New. The Create Endpoint pane is displayed.
2. Create or edit a HTTP endpoint. See [Creating or editing an HTTP endpoint](#).

### Configuring the activity

1. Select the **Configure** task from the **Checklist**. The Configure pane is displayed.
2. Configure all the fields and check boxes in this pane as described in the following table:

Table 1.

Field or Check Box	Description
URL (Path after Hostname)	<p>Specifies the resource path that the <b>Head Request</b> activity sends the request to, for example: /mypath. The string you specify in this field must exclude the string: http://, the hostname and the port number of the Integration Appliance. The full URL is automatically constructed from the host name of the Integration Appliance, the port number specified in the HTTP endpoint and the path specified in this field. For example, if the full URL that the <b>Head Request</b> activity sends the request to is http://myAR:myPort/myPath, in this field you only need to specify the string: /myPath. The specified path must be unique for the <b>Head Request</b> activities that are deployed at the same time on the same Integration Appliance using the same port.</p> <p>To make use of path parameters and query parameters, enter a URL in this format: url/{path}?name1=value1&amp;name2=value2. This allows you to map a string value to the "{path}" parameter and to specify query parameter names: name1 and name2 in this example. If you choose to declare multiple "{path}" parameters, each parameter should have a unique name. Parameters with the same name are represented by only one node in the map. The path parameters are displayed under /httpheaders/pathParameters in Map Input. And query parameters will be displayed under /httpheaders/queryParameters in Map Input.</p> <p>Note: In the URL, any value you assign to a query parameter is not passed to the mapper. To assign a value to the query parameter, either explicitly map a value to the query parameter in the mapper, or define a default value.</p>
Where Request Message is Of Type	Specifies the expected message type of the HTTP response - either Text or Binary.

Field or Check Box	Description
Stop Processing the Orchestration Job or Continue Processing and Return the HTTP Error code	<p>Specifies the run time behavior of the activity if an error response is returned from the HTTP Server:</p> <ul style="list-style-type: none"> <li>○ <b>Stop Processing the Orchestration Job</b> - Select this option if the orchestration job should stop processing when an error response is received from the HTTP Server during run time. The orchestration stops processing in the <b>Head Request</b> activity and the activities after the <b>Head Request</b> activity in the orchestration are not processed and a failed exception is thrown.</li> <li>○ <b>Continue Processing and Return the HTTP Error code</b> - Select this option if the orchestration job should continue processing when an error response is received from the HTTP Server during run time. The orchestration job should continue processing activities after the <b>Head Request</b> activity in the orchestration and the error response code and the error response message is returned in the responsecode and responsemessage output parameters, respectively.</li> </ul>
Use Compression/Decompression	<p>Specifies if compression/decompression is turned on or off at the activity level. By default, the Use Compression/Decompression check box is clear and compression/decompression is disabled for this activity. Select the Use Compression/Decompression check box to enable compression/decompression for this activity. For more information, see <a href="#">Compression/Decompression with the HTTP Invoke/Get/Post/Head/Put/Delete Request activity</a>.</p>

## Specifying the request headers

1. Select the **Request Headers** task from the Checklist. The **Request Headers** pane is displayed. A **Custom Headers** table is displayed at the top, a **Include pre-defined standard headers** checkbox is displayed in the middle and a **Standard Headers** table is displayed at the bottom.
2. Click the **Add** button to add a header to the **Custom Headers** table. Click on the new entry to enter a header name or select a header name from the drop down list. If the header name is a pre-defined header name, a description is displayed in the **Description** column, otherwise enter your own description for your headers.
3. To use the pre-defined standard headers, check the **Include pre-defined standard headers** checkbox. Note that duplicate header names are not allowed (ignoring the case difference) and you may be prompted to remove any duplicate headers in the **Custom Headers** table. The selected HTTP headers are displayed under /httpheaders in Map Input.

## Specifying the response headers

1. Select the **Response Headers** task from the Checklist. The **Response Headers** pane is displayed. A Custom Headers table is displayed at the top, a **Include pre-defined standard headers** checkbox is displayed in the middle, and a **Standard Headers** table is displayed at the bottom.
2. Click the **Add** button to add a header to the **Custom Headers** table. Click on the new entry to enter a header name or select a header name from the drop down list. If the header name is a pre-defined header name, a description is displayed in the **Description** column, otherwise enter your own description for your headers.
3. To use the pre-defined standard headers, check the **Include pre-defined standard headers** checkbox. Note that duplicate header names are not allowed (ignoring the case difference) and you are prompted to remove any duplicate headers in the **Custom Headers** table. The selected HTTP headers are displayed under /httpheaders in Map Output.

## Specifying the retry options

1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
2. Configure the retry options to connect to an HTTP Server. The following table defines the retry options for connecting to an HTTP Server:

Field	Description

Retry	Â
1) Wait --- seconds between each retry.	Specifies the amount of time (in seconds) that the Integration Appliance waits before trying to establish a connection to the HTTP server.
2) Try to connect --- times before failing.	Specifies the retry count - the maximum number of times the Integration Appliance attempts to establish a connection to the HTTP Server before issuing an error and stopping the processing of the current orchestration job. If you deploy an orchestration that contains an <b>HTTP Head Request</b> activity and the Integration Appliance cannot connect to the specified HTTP Server, the Integration Appliance logs the connections errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.
3) Time out after --- seconds when the Endpoint does not respond to a request.	Specifies the amount of time in seconds before a timeout occurs between the activity making a request on an Endpoint and the time it takes the Endpoint to respond. For the <b>HTTP Head Request</b> activity, the activity timeout is the amount of time that the Integration Appliance waits for a response from the HTTP Server after sending a HTTP request, before the Integration Appliance issues a timeout error. An activity timeout is different from a connection timeout because an activity timeout occurs after the connection to the endpoint has been established. A connection timeout specifies the amount of time in seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the endpoint and the time it takes for the endpoint to respond to the connection request. You set the connection timeout in <b>HTTP Endpoint</b> tab. For more information about connection timeouts, see, <a href="#">Creating or Editing a Web Services Endpoint</a> .

## Mapping the input into the activity

1. Select the **Map Inputs** task in the **Checklist**. The body input parameter is displayed in the To Activity pane of the **Map Inputs** task. The body input parameter is optional. The body input parameter contains the body of the HTTP response message sent back to the HTTP server.
2. To view the optional input parameter in the To Activity pane of the Map Inputs pane, select Map > Show Optional Parameters from the toolbar menu or right-click in the To Activity pane and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click on a node in the Map Inputs pane to make this option active. The **httpheaders** and **httpConnParameter** input parameters are displayed.

The following table defines the nodes of the optional **httpheaders** input parameter:

Table 2.

Nodes of the <b>httpheaders</b> Input Parameter	Description
httpheaders/uri	Specifies the resource path, for example: /myPath.
httpheaders/<configured_header_name>	If you configured at least one request header in Request Headers step, each one of them will be displayed here. <configured_header_name> will be replaced with the actual header names you selected or entered.
httpheaders/pathParameters	If you configured path parameters in the URL in the Configure step, each is displayed here. If no path parameter is specified, this node does not display.
httpheaders/queryParameters	If you configured query parameters in the URL in Configure step, each is displayed here. If no query parameter is specified, this node does not display.
httpheaders/otherHeaders/headerItem	Specifies an element that contains a set of HTTP header parameters as name/value pairs for the HTTP response. Multiple HTTP parameters can be specified in the HTTP response, so this is a Â recurring node.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP parameter.

Nodes of the httpheaders Input Parameter	Description
httpheaders/otherHeaders/headerItem/value	Specifies the value of the HTTP parameter.

Note: If the Content-Length header is explicitly set using the `httpheaders/otherHeaders/headerItem/name` and `httpheaders/otherHeaders/headerItem/value`, during run time this value is ignored. This activity automatically sets the Content-Length header to the size of the body.

The following table defines the nodes of the optional `httpConnParameter` input parameter. You can optionally override the settings you specified in the Pick Endpoint task of the Checklist dynamically during run time by passing in values from variables into the nodes specified in the following table. For example during run time, you can override the Host Name specified in the endpoint, by mapping a variable to the host node of the `httpConnParameter` input parameter. During run time, the value of the variable is the host name used to connect the HTTP server.

Table 3.

Nodes of the httpConnParameter Input Parameter	Description	Overrides what settings in the HTTP endpoint?
timeout	Specifies the amount of time in seconds before a timeout occurs.	Ã¢
host	Specifies the host name or IP address of the remote HTTP server.	The host node of the <code>httpConnParameter</code> input parameter overrides the Host Name field of the HTTP endpoint.
port	Specifies the port number of the remote HTTP server.	The port node of the <code>httpConnParameter</code> input parameter overrides the Port field of the HTTP endpoint.
isSecure	Set this boolean equal to true to enable HTTPS - secure HTTP over SSL. Set this boolean equal to false to disable security.	The <code>isSecure</code> node of the <code>httpConnParameter</code> input parameter overrides the Security option in the HTTP endpoint.
username	Specifies the user name for the account used to connect to the HTTP server.	The <code>username</code> node of the <code>httpConnParameter</code> input parameter overrides the User Name field in the HTTP endpoint.
password	Specifies the password for the account used to connect to the HTTP Server.	The <code>password</code> node of the <code>httpConnParameter</code> input parameter overrides the Password field in the HTTP endpoint.

3. Create a map between the orchestration variable or variables and the input parameter or parameters. See [Creating a map](#) for general instructions on mapping

## Mapping the output of the activity

1. Select the **Map Outputs** task in the **Checklist**. The output parameters of the activity are displayed in the From Activity pane of the **Map Outputs** task as described in the following table:

Table 4.

Output Parameter	Description
httpheaders	Specifies the header of the HTTP request.
body	Specifies the body of the HTTP request message.
responsecode	Specifies the HTTP Response Code that is returned from the HTTP Server during run time.
responsemessage	Specifies the message associated with the HTTP Response Code.

The following table defines the nodes of the optional `httpheaders` output parameter. Ã¢

Table 5.

<b>Nodes of the httpheaders Output Parameter</b>	<b>Description</b>
httpheaders/uri	Specifies the resource path of the incoming request, for example: /myPath.
httpheaders/<configured_header_name>	If you configured at least one response header in Response Headers step, each is displayed here. <configured_header_name> will be replaced with the actual header names you selected or entered.
httpheaders/otherHeaders/headerItem	Specifies an element that contains a set of HTTP header parameters as name/value pairs. Multiple HTTP header parameters can be specified in the HTTP request, so this is a recurring node.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP header parameter.
httpheaders/otherHeaders/headerItem/value	Specifies the value of the HTTP header parameter.

2. Create a map between the output parameter or parameters of the activity and orchestration variable or variables. See [Creating a map](#) for general instructions on mapping.

## Using certificates with Microsoft Internet Explorer

If you have selected the HTTPS security option in the HTTP endpoint, note that Microsoft Internet Explorer does not recognize a modified certificate and caches the SSL state. If you modify certificates, you must clear the SSL state. To clear the SSL state in Microsoft Internet Explorer:

1. From the Microsoft Internet Explorer toolbar menu, select Tools > Internet Options.... The Internet Options pane is displayed.
2. Click the Content tab.
3. In the **Certificates** section, click Clear SSL State. The SSL Cache Cleared Successfully dialog box is displayed.
4. Click OK and click OK.

**Parent topic:** [HTTP Activities](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http\\_head\\_request\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http_head_request_activity.html)

## HTTP Invoke Request activity

The HTTP **Invoke Request** activity sends a HTTP request to the specified location, the HTTP endpoint, and receives a HTTP response back from that location.

### Adding an HTTP Invoke Request activity to the orchestration

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the HTTP folder.
3. Drag the **Invoke Request** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed.

### Creating, selecting, or editing an HTTP endpoint

1. Click **Pick Endpoint** task from the **Checklist** and choose from one of the following actions:
  - o Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK. Skip to the "Configure the activity" procedure.
  - o Select an existing endpoint and edit the endpoint:

- a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint pane is displayed.
- o Create a new endpoint: Select New. The Create Endpoint pane is displayed.
2. Create or edit a HTTP endpoint, see [Creating or editing an HTTP endpoint](#).

## Configuring the activity

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1. Select the **Configure** task from the **Checklist**. The Configure pane is displayed.
2. Configure all the fields and check boxes in this pane as described in the following table:

Table 1.

Field or Check Box	Description
URL (Path after Hostname)	<p>Specifies the resource path that the <b>Invoke Request</b> activity sends the request to, for example: /mypath. The string you specify in this field must exclude the string: http://, the host name, and the port number of the Integration Appliance. The full URL is automatically constructed from the host name of the Integration Appliance, the port number specified in the HTTP endpoint, and the path specified in this field. For example, if the full URL that the <b>Invoke Request</b> activity sends the request to is http://myAR:myPort/myPath, in this field you only need to specify the string: /myPath. The specified path must be unique for the <b>Invoke Request</b> activities that are deployed at the same time on the same Integration Appliance using the same port.</p> <p>To make use of path parameters and query parameters, enter a URL in this format:url/{path}?name1=value1&amp;name2=value2. This allows you to map a string value to the "{path}" parameter and to specify query parameter names: <i>name1</i> and <i>name2</i> in this example. If you choose to declare multiple "{path}" parameters, it is recommended that each parameter has a unique name. Parameters with the same name are represented by only one node in the map. The path parameters are displayed under /httpheaders/pathParameters in Map Input. Query parameters are displayed under /httpheaders/queryParameters in Map Input.</p> <p>Note: In the URL, any value you assign to a query parameter is not passed to the mapper. To assign a value to the query parameter, either explicitly map a value to the query parameter in the mapper, or define a default value.</p>
Where Request Message is Of Type	Specifies the expected message type of the HTTP request - either Text or Binary. Â
Where Reply Message is Of Type	Specifies the message type of the HTTP reply - either Text or Binary.

Field or Check Box	Description
Stop Processing the Orchestration Job or Continue Processing and Return the HTTP Error code	<p>Specifies the run time behavior of the activity if an error response is returned from the HTTP Server:</p> <ul style="list-style-type: none"> <li>○ <b>Stop Processing the Orchestration Job</b> - Select this option if the orchestration job should stop processing when an error response is received from the HTTP Server during run time. The orchestration stops processing in the <b>Invoke Request</b> activity and the activities after the <b>Invoke Request</b> activity in the orchestration are not processed and a failed exception is thrown.</li> <li>○ <b>Continue Processing and Return the HTTP Error code</b> - Select this option if the orchestration job should continue processing when an error response is received from the HTTP Server during run time. The orchestration job should continue processing activities after the <b>Invoke Request</b> activity in the orchestration and the error response code and the error response message is returned in the responsecode and responsemessage output parameters, respectively.</li> </ul>
Use Compression/Decompression	<p>Specifies if compression/decompression is turned on or off at the activity level. By default, the Use Compression/Decompression check box is clear and compression/decompression is disabled for this activity. Select the Use Compression/Decompression check box to enable compression/decompression for this activity. For more information, see <a href="#">Compression/Decompression with the HTTP Invoke/Get/Post/Head/Put/Delete Request activity</a>.</p>

## Specifying the request headers

1. Select the **Request Headers** task from the Checklist. The **Request Headers** pane is displayed. A **Custom Headers** table is displayed at the top, a **Include pre-defined standard headers** checkbox is displayed in the middle and a **Standard Headers** table is displayed at the bottom.
2. Click the **Add** button to add a header to the **Custom Headers** table. Click on the new entry to enter a header name or select a header name from the drop down list. If the header name is a pre-defined header name, a description is displayed in the **Description** column, otherwise enter your own description for your headers.
3. To use the pre-defined standard headers, check the **Include pre-defined standard headers** checkbox. Note that duplicate header names are not allowed (ignoring the case difference) and you are prompted to remove any duplicate headers in the **Custom Headers** table. The selected HTTP headers are displayed under /httpheaders in Map Input.

## Specifying the response headers

1. Select the **Response Headers** task from the Checklist. The **Response Headers** pane is displayed. A **Custom Headers** table is displayed at the top, a **Include pre-defined standard headers** checkbox is displayed in the middle and a **Standard Headers** table is displayed at the bottom.
2. Click the **Add** button to add a header to the **Custom Headers** table. Click on the new entry to enter a header name or select a header name from the drop down list. If the header name is a pre-defined header name, a description is displayed in the **Description** column, otherwise enter your own description for your headers.
3. To use the pre-defined standard headers, check the **Include pre-defined standard headers** checkbox. Note that duplicate header names are not allowed (ignoring the case difference) and you are prompted to remove any duplicate headers in the **Custom Headers** table. The selected HTTP headers are displayed under /httpheaders in Map Output.

## Specifying the retry options

1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
2. Configure the retry options for connecting to an HTTP Server. The following table defines the retry options for a connection to an HTTP Server:

Table 2.

<b>Fields</b>	<b>Description</b>
<b>Retry</b>	<p>1) Wait --- seconds between each retry.</p> <p>The number of seconds that the Integration Appliance waits before trying to establish a connection to the HTTP Server.</p>
2) Try to connect --- times before failing.	<p>Specifies the retry count - the maximum number of times the Integration Appliance attempts to establish a connection to the HTTP Server before issuing an error and stopping the processing of the current orchestration job.</p> <p>If you deploy an orchestration that contains an HTTP Post Request activity and the Integration Appliance cannot connect to the specified HTTP Server, the Integration Appliance logs the connection errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system and orchestration logs and stops processing the current orchestration job.</p> <p>For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.</p>
<b>Activity Timeout</b>	<p>3) Time out after --- seconds when the Endpoint does not respond to a request.</p> <p>Specifies the amount of time in seconds before a timeout occurs between the activity making a request on an Endpoint and the time it takes the Endpoint to respond. For the <b>Invoke Request</b> activity, the activity timeout is the amount of time that the Integration Appliance waits for a response from the HTTP Server after sending a HTTP request, before the Integration Appliance issues a timeout error. An activity timeout is different from a connection timeout because an activity timeout occurs after the connection to the endpoint has been established. A connection timeout specifies the amount of time in seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the endpoint and the time it takes for the endpoint to respond to the connection request. You set the connection timeout in HTTP Endpoint tab. For more information about connection timeouts, see <a href="#">Creating or editing an HTTP endpoint</a>.</p>

## Mapping the input into the activity

1. Select the **Map Inputs** task in the **Checklist**. The body input parameter is displayed in the To Activity pane of the **Map Inputs** task. The body input parameter is mandatory and at least one variable must be mapped to it. The body input parameter contains the body of the HTTP request message sent to the HTTP server.
2. To view the optional input parameters in the To Activity pane of the Map Inputs pane, select Map > Show Optional Parameters from the toolbar menu or right-click in the To Activity pane and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click on a node in the Map Inputs pane to make this option active. The httpheaders and httpConnParameter input parameters display.

The following table defines the nodes of the optional httpheaders input parameter:

Table 3.

<b>Nodes of the httpheaders Input Parameter</b>	<b>Description</b>
httpheaders/uri	Specifies the resource path, for example: /myPath.
httpheaders/method	Specifies the type of HTTP request. If no value is mapped, the default method is POST.
httpheaders/<configured_header_name>	If you configured at least one request header in Request Headers step, each is displayed here. <configured_header_name> is replaced with the actual header names you selected or entered
httpheaders/pathParameters	If you configured path parameters in the URL in Configure step, each is displayed here. If no path parameter is specified, this node does not display.

Nodes of the httpheaders Input Parameter	Description
httpheaders/queryParameters	If you configured query parameters in the URL in Configure step, each is displayed here. If no query parameter is specified, this node does not display.
httpheaders/otherHeaders/headerItem	Specifies an element that contains a set of HTTP header parameters as name/value pairs. Multiple HTTP header parameters can be specified in the HTTP request, so this is a recurring node.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP header parameter.
httpheaders/otherHeaders/headerItem/value	Specifies the value of the HTTP header parameter.

Note: If the Content-Length header is explicitly set using the httpheaders/otherHeaders/headerItem/name and httpheaders/otherHeaders/headerItem/value, during run time this value is ignored. This activity automatically sets the Content-Length header to the size of the body.

The following table defines the nodes of the optional httpConnParameter input parameter. You can optionally override the settings you specified in the **Pick Endpoint** task of the **Checklist** dynamically during run time by passing in values from variables into the nodes specified in the following table. For example during run time, you can override the Host Name specified in the endpoint, by mapping a variable to the host node of the httpConnParameter input parameter. During run time, the value of the variable is the host name used to connect the HTTP server.

Table 4.

Nodes of the httpConnParameter Input Parameter	Description	Overrides what settings in the HTTP endpoint?
timeout	Specifies the amount of time in seconds before a timeout occurs.	Â
host	Specifies the host name or IP address of the remote HTTP server. Â	The <b>host</b> node of the httpConnParameter input parameter overrides the Host Name field of the HTTP endpoint.
port	Specifies the port number of the remote HTTP server. Â	The <b>port</b> node of the httpConnParameter input parameter overrides the Port field of the HTTP endpoint.
isSecure	Set this boolean equal to true to enable HTTPS - secure HTTP over SSL. Set this boolean equal to false to disable security.	The <b>isSecure</b> node of the httpConnParameter input parameter overrides the Security option in the HTTP endpoint.
username	Specifies the user name for the account used to connect to the HTTP server.	The <b>username</b> node of the httpConnParameter input parameter overrides the User Name field in the HTTP endpoint.
password	Specifies the password for the account used to connect to the HTTP Server.	The <b>password</b> node of the httpConnParameter input parameter overrides the Password field in the HTTP endpoint.

3. Create a map between the orchestration variable or variables and input parameter or parameters. See [Creating a map](#) for general instructions on mapping.

## Mapping the output of the activity

1. Select the **Map Outputs** task in the **Checklist**. The output parameters of the activity are displayed in the From Activity pane of the **Map Outputs** task as described in the following table:

Table 5.

Output Parameter	Description
httpheaders	Specifies the header of the HTTP response.
body	Specifies the body of the HTTP response message.
responsecode	Specifies the HTTP Response Code that is returned from the HTTP Server during run time. Â
responsemessage	Specifies the message associated with the HTTP Response Code.

The following table defines the nodes of the httpheaders output parameter:

Table 6.

Nodes of the httpheaders Output Parameter	Description
httpheaders/uri	Specifies the resource path, for example: /myPath.
httpheaders/method	Specifies the type of HTTP response.
httpheaders/<configured_header_name>	If you configured at least one response header in Response Headers step, each is displayed here. <configured_header_name> is replaced with the actual header names you selected or entered.
httpheaders/otherHeaders/headerItem	Specifies a set of name/value pairs that contain the HTTP parameters of the HTTP response. Multiple HTTP parameters can be specified in the HTTP response, so headerItem is a recurring node.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP parameter.
httpheaders/otherHeaders/headerItem/value	Specifies the value of the HTTP parameter.

2. Create a map between the output parameter or parameters of the activity and orchestration variable or variables. See [Creating a map](#) for general instructions on mapping.

## Using certificates with Microsoft Internet Explorer

If you have selected the HTTPS security option in the HTTP endpoint, note that Microsoft Internet Explorer does not recognize a modified certificate and caches the SSL state. If you modify certificates, you must clear the SSL state. To clear the SSL state in Microsoft Internet Explorer:

1. From the Microsoft Internet Explorer toolbar menu, select Tools > Internet Options.... The Internet Options pane is displayed.
2. Click the Content tab.
3. In the **Certificates** section, click Clear SSL State. The SSL Cache Cleared Successfully dialog box is displayed.
4. Click OK and click OK.

**Parent topic:** [HTTP Activities](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http\\_invoke\\_request\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http_invoke_request_activity.html)

## HTTP Put Request activity

The **HTTP Put Request** activity sends a **Put Request** to the specified location (the HTTP endpoint) and receives a HTTP response back from that location.

### Adding an HTTP Put Request activity to the orchestration

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the HTTP folder.
3. Drag the **Put Request** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed.

### Creating, selecting, or editing an HTTP endpoint

1. Click **Pick Endpoint** task from the **Checklist** and choose from one of the following actions:
  - o Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK. Skip to the "Configure the activity" procedure.

- o Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint pane is displayed.
  - o Create a new endpoint: Select New. The Create Endpoint pane is displayed.
2. Create or edit a HTTP endpoint. See [Creating or editing an HTTP endpoint](#).

## Configuring the activity

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1. Select the **Configure** task from the **Checklist**. The Configure pane is displayed.
2. Configure all the fields and check boxes in this pane as described in the following table:

Table 1.

Field or Check Box	Description
URL (Path after Hostname)	<p>Specifies the resource path that the <b>Put Request</b> activity sends the request to, for example: /mypath. The string you specify in this field must exclude the string: http://, the hostname and the port number of the Integration Appliance. The full URL is automatically constructed from the host name of the Integration Appliance, the port number specified in the HTTP endpoint and the path specified in this field. For example, if the full URL that the <b>Put Request</b> activity sends the request to is http://myAR:myPort/myPath, in this field you only need to specify the string: /myPath. The specified path must be unique for the <b>Put Request</b> activities that are deployed at the same time on the same Integration Appliance using the same port.</p> <p>To make use of path parameters and query parameters, enter a URL in this format, "url/{path}?name1=value1&amp;name2=value2". This allows you to map a string value to the "{path}" parameter and to specify query parameter names: "name1" and "name2" in this example. If you choose to declare multiple "{path}" parameters, it is recommended that each parameter has a unique name. Parameters with the same name are represented by only one node in the map. The path parameters will be displayed under /httpheaders/pathParameters in Map Input. And query parameters will be displayed under /httpheaders/queryParameters in Map Input.</p> <p>Note: In the URL, any value you assign to a query parameter is not passed to the mapper. To assign a value to the query parameter, either explicitly map a value to the query parameter in the mapper, or define a default value.</p>
Where Request Message is Of Type	Specifies the message type of the HTTP response - either Text or Binary.
Where Reply Message is Of Type	Specifies the message type of the HTTP reply - either Text or Binary..

Field or Check Box	Description
Stop Processing the Orchestration Job or Continue Processing and Return the HTTP Error code	<p>Specifies the run time behavior of the activity if an error response is returned from the HTTP Server:</p> <ul style="list-style-type: none"> <li>○ <b>Stop Processing the Orchestration Job</b> - Select this option if the orchestration job should stop processing when an error response is received from the HTTP Server during run time. The orchestration stops processing in the <b>Put Request</b> activity and the activities after the <b>Put Request</b> activity in the orchestration are not processed and a failed exception is thrown.</li> <li>○ <b>Continue Processing and Return the HTTP Error code</b> - Select this option if the orchestration job should continue processing when an error response is received from the HTTP Server during run time. The orchestration job should continue processing activities after the <b>Put Request</b> activity in the orchestration and the error response code and the error response message is returned in the responsecode and responsemessag output parameters, respectively.</li> </ul>
Use Compression/Decompression	<p>Specifies if compression/decompression is turned on or off at the activity level. By default, the Use Compression/Decompression check box is clear and compression/decompression is disabled for this activity. Select the Use Compression/Decompression check box to enable compression/decompression for this activity. For more information, see <a href="#">Compression/Decompression with the HTTP Invoke/Get/Post/Head/Put/Delete Request activity</a>.</p>

## Specifying the request headers

1. Select the **Request Headers** task from the Checklist. The **Request Headers** pane is displayed. A **Custom Headers** table is displayed at the top, a **Include pre-defined standard headers** checkbox is displayed in the middle and a **Standard Headers** table is displayed at the bottom.
2. Click the **Add** button to add a header to the **Custom Headers** table. Click on the new entry to enter a header name or select a header name from the drop down list. If the header name is a pre-defined header name, a description is displayed in the **Description** column, otherwise, enter your own description for your headers.
3. To use the pre-defined standard headers, check the **Include pre-defined standard headers** checkbox. Note that duplicate header names are not allowed (ignoring the case difference) and you are prompted to remove any duplicate headers in the **Custom Headers** table. The selected HTTP headers are displayed under /httpheaders in Map Input.

## Specifying the response headers

1. Select the **Response Headers** task from the Checklist. The **Response Headers** pane is displayed. A Custom Headers table is displayed at the top, a **Include pre-defined standard headers** checkbox is displayed in the middle, and a **Standard Headers** table is displayed at the bottom.
2. Click the **Add** button to add a header to the **Custom Headers** table. Click on the new entry to enter a header name or select a header name from the drop down list. If the header name is a pre-defined header name, a description is displayed in the **Description** column, otherwise, enter your own description for your headers.
3. To use the pre-defined standard headers, check the **Include pre-defined standard headers** checkbox. Note that duplicate header names are not allowed (ignoring the case difference) and you may be prompted to remove any duplicate headers in the **Custom Headers** table. The selected HTTP headers are displayed under /httpheaders in Map Output.

## Specifying the retry options

1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
2. Configure the retry options to connect to an HTTP Server. The following table defines the retry options for connecting to an HTTP Server:

Field	Description

Retry	Â
1) Wait --- seconds between each retry.	Specifies the amount of time (in seconds) that the Integration Appliance waits before trying to establish a connection to the HTTP server.
2) Try to connect --- times before failing.	Specifies the retry count - the maximum number of times the Integration Appliance attempts to establish a connection to the HTTP Server before issuing an error and stopping the processing of the current orchestration job. If you deploy an orchestration that contains an <b>HTTP Put Request</b> activity and the Integration Appliance cannot connect to the specified HTTP Server, the Integration Appliance logs the connections errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.
3) Time out after --- seconds when the Endpoint does not respond to a request.	Specifies the amount of time in seconds before a timeout occurs between the activity making a request on an Endpoint and the time it takes the Endpoint to respond. For the <b>HTTP Put Request</b> activity, the activity timeout is the amount of time that the Integration Appliance waits for a response from the HTTP Server after sending a HTTP request, before the Integration Appliance issues a timeout error. An activity timeout is different from a connection timeout because an activity timeout occurs after the connection to the endpoint has been established. A connection timeout specifies the amount of time in seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the endpoint and the time it takes for the endpoint to respond to the connection request. You set the connection timeout in <b>HTTP Endpoint</b> tab. For more information about connection timeout, see <a href="#">Creating or Editing a Web Services Endpoint</a> .

## Mapping the input into the activity

- Select the **Map Inputs** task in the **Checklist**. The body input parameter is displayed in the To Activity pane of the **Map Inputs** task. The body input parameter is mandatory and at least one variable must be mapped to it. The body input parameter contains the body of the HTTP response message sent back to the HTTP server.
- To view the optional input parameter in the To Activity pane of the Map Inputs pane, select Map > Show Optional Parameters from the toolbar menu or right-click in the To Activity pane and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click on a node in the Map Inputs pane to make this option active. The **httpheaders** and **httpConnParameter** input parameters are displayed.

The following table defines the nodes of the optional **httpheaders** input parameter:

Table 2.

Nodes of the <b>httpheaders</b> Input Parameter	Description
<b>httpheaders/uri</b>	Specifies the resource path, for example: /myPath.
<b>httpheaders/&lt;configured_header_name&gt;</b>	If you configured at least one request header in Request Headers step, each is displayed here. <configured_header_name> is replaced with the actual header names you selected or entered.
<b>httpheaders/pathParameters</b>	If you configured path parameters in the URL in Configure step, each is displayed here. If no path parameter is specified, this node does not display.
<b>httpheaders/queryParameters</b>	If you configured query parameters in the URL in Configure step, each one of them will be displayed here. If no query parameter is specified, this node does not display.
<b>httpheaders/otherHeaders/headerItem</b>	Specifies an element that contains a set of HTTP header parameters as name/value pairs for the HTTP response. Multiple HTTP parameters can be specified in the HTTP response, so this is a Â recurring node.
<b>httpheaders/otherHeaders/headerItem/name</b>	Specifies the name of the HTTP parameter.

Nodes of the httpheaders Input Parameter	Description
httpheaders/otherHeaders/headerItem/value	Specifies the value of the HTTP parameter.

Note: If the Content-Length header is explicitly set using the `httpheaders/otherHeaders/headerItem/name` and `httpheaders/otherHeaders/headerItem/value`, during run time this value is ignored. This activity automatically sets the Content-Length header to the size of the body.

The following table defines the nodes of the optional `httpConnParameter` input parameter. You can optionally override the settings you specified in the Pick Endpoint task of the Checklist dynamically during run time by passing in values from variables into the nodes specified in the following table. For example during run time, you can override the Host Name specified in the endpoint, by mapping a variable to the host node of the `httpConnParameter` input parameter. During run time, the value of the variable is the host name used to connect the HTTP server.

Table 3.

Nodes of the httpConnParameter Input Parameter	Description	Overrides what settings in the HTTP endpoint?
timeout	Specifies the amount of time in seconds before a timeout occurs.	Â
host	Specifies the host name or IP address of the remote HTTP server.	The host node of the <code>httpConnParameter</code> input parameter overrides the Host Name field of the HTTP endpoint.
port	Specifies the port number of the remote HTTP server.	The port node of the <code>httpConnParameter</code> input parameter overrides the Port field of the HTTP endpoint.
isSecure	Set this boolean equal to true to enable HTTPS - secure HTTP over SSL. Set this boolean equal to false to disable security.	The <code>isSecure</code> node of the <code>httpConnParameter</code> input parameter overrides the Security option in the HTTP endpoint.
username	Specifies the user name for the account used to connect to the HTTP server.	The <code>username</code> node of the <code>httpConnParameter</code> input parameter overrides the User Name field in the HTTP endpoint.
password	Specifies the password for the account used to connect to the HTTP Server.	The <code>password</code> node of the <code>httpConnParameter</code> input parameter overrides the Password field in the HTTP endpoint.

3. Create a map between the orchestration variable or variables and the input parameter or parameters. See [Creating a map](#) for general instructions on mapping

## Mapping the output of the activity

1. Select the **Map Outputs** task in the **Checklist**. The output parameters of the activity are displayed in the From Activity pane of the **Map Outputs** task as described in the following table:

Table 4.

Output Parameter	Description
httpheaders	Specifies the header of the HTTP request.
body	Specifies the body of the HTTP request message.
responsecode	Specifies the HTTP Response Code that is returned from the HTTP Server during run time.
responsemessage	Specifies the message associated with the HTTP Response Code.

The following table defines the nodes of the optional `httpheaders` output parameter. Â

Table 5.

Nodes of the httpheaders Output Parameter	Description
httpheaders/uri	Specifies the resource path of the incoming request, for example: /myPath.

Nodes of the httpheaders Output Parameter	Description
httpheaders/<configured_header_name>	If you configured at least one response header in Response Headers step, each is displayed here. <configured_header_name> is replaced with the actual header names you selected or entered.
httpheaders/otherHeaders/headerItem	Specifies an element that contains a set of HTTP header parameters as name/value pairs. Multiple HTTP header parameters can be specified in the HTTP request, so this is a recurring node.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP header parameter.
httpheaders/otherHeaders/headerItem/value	Specifies the value of the HTTP header parameter.

2. Create a map between the output parameter or parameters of the activity and orchestration variable or variables. See [Creating a map](#) for general instructions on mapping.

## Using certificates with Microsoft Internet Explorer

If you have selected the HTTPS security option in the HTTP endpoint, note that Microsoft Internet Explorer does not recognize a modified certificate and caches the SSL state. If you modify certificates, you must clear the SSL state. To clear the SSL state in Microsoft Internet Explorer:

1. From the Microsoft Internet Explorer toolbar menu, select Tools > Internet Options.... The Internet Options pane is displayed.
2. Click the Content tab.
3. In the **Certificates** section, click Clear SSL State. The SSL Cache Cleared Successfully dialog box is displayed.
4. Click OK and click OK.

**Parent topic:** [HTTP Activities](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http\\_put\\_request\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http_put_request_activity.html)

## HTTP Delete Request activity

The HTTP **Delete Request** activity sends a **Delete Request** to the specified location (the HTTP endpoint) and receives a HTTP response back from that location.

### Adding an HTTP Delete Request activity to the orchestration

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the HTTP folder.
3. Drag the **Delete Request** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed.

### Creating, selecting, or editing an HTTP endpoint

1. Click **Pick Endpoint** task from the **Checklist** and choose from one of the following actions:
  - o Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK. Skip to the "Configure the activity" procedure.
  - o Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint pane is displayed.

- o Create a new endpoint: Select New. The Create Endpoint pane is displayed.
2. Create or edit a HTTP endpoint. See [Creating or editing an HTTP endpoint](#).

## Configuring the activity

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1. Select the **Configure** task from the **Checklist**. The Configure pane is displayed.
2. Configure all the fields and check boxes in this pane as described in the following table:

Table 1.

Field or Check Box	Description
URL (Path after Hostname)	<p>Specifies the resource path that the <b>Delete Request</b> activity sends the request to, for example: /mypath. The string you specify in this field must exclude the string: http://, the hostname, and the port number of the Integration Appliance. The full URL is automatically constructed from the host name of the Integration Appliance, the port number specified in the HTTP endpoint and the path specified in this field. For example, if the full URL that the <b>Delete Request</b> activity sends the request to is http://myAR:myPort/myPath, in this field you only need to specify the string: /myPath. The specified path must be unique for the <b>Delete Request</b> activities that are deployed at the same time on the same Integration Appliance using the same port.</p> <p>To make use of path parameters and query parameters, enter a URL in this format, "url/{path}?name1=value1&amp;name2=value2". This allows you to map a string value to the "{path}" parameter and to specify query parameter names: <i>name1</i> and <i>name2</i> in this example. If you choose to declare multiple "{path}" parameters, each parameter should have a unique name. Parameters with the same name are represented by only one node in the map. The path parameters are displayed under /httpheaders/pathParameters in Map Input. Query parameters are displayed under /httpheaders/queryParameters in Map Input.</p> <p>Note: In the URL, any value you assign to a query parameter is not passed to the mapper. To assign a value to the query parameter, either explicitly map a value to the query parameter in the mapper, or define a default value.</p>
Where Request Message is Of Type	Specifies the message type of the HTTP response - either Text or Binary.
Where Reply Message is Of Type	Specifies the message type of the HTTP reply - either Text or Binary.

Field or Check Box	Description
Stop Processing the Orchestration Job or Continue Processing and Return the HTTP Error code	<p>Specifies the run time behavior of the activity if an error response is returned from the HTTP Server:</p> <ul style="list-style-type: none"> <li>○ <b>Stop Processing the Orchestration Job</b> - Select this option if the orchestration job should stop processing when an error response is received from the HTTP Server during run time. The orchestration stops processing in the <b>Delete Request</b> activity and the activities after the <b>Delete Request</b> activity in the orchestration are not processed and a failed exception is thrown.</li> <li>○ <b>Continue Processing and Return the HTTP Error code</b> - Select this option if the orchestration job should continue processing when an error response is received from the HTTP Server during run time. The orchestration job should continue processing activities after the <b>Post Request</b> activity in the orchestration and the error response code and the error response message is returned in the responsecode and responsemessage output parameters, respectively.</li> </ul>
Use Compression/Decompression	<p>Specifies if compression/decompression is turned on or off at the activity level. By default, the Use Compression/Decompression check box is clear and compression/decompression is disabled for this activity. Select the Use Compression/Decompression check box to enable compression/decompression for this activity. For more information, see <a href="#">Compression/Decompression with the HTTP Invoke/Get/Post/Head/Put/Delete Request activity</a></p>

## Specifying the request headers

1. Select the **Request Headers** task from the Checklist. The **Request Headers** pane is displayed. A **Custom Headers** table is displayed at the top, a **Include pre-defined standard headers** checkbox is displayed in the middle and a **Standard Headers** table is displayed at the bottom.
2. Click the **Add** button to add a header to the **Custom Headers** table. Click on the new entry to enter a header name or select a header name from the drop down list. If the header name is a pre-defined header name, a description is displayed in the **Description** column, otherwise enter your own description for your headers.
3. To use the pre-defined standard headers, check the **Include pre-defined standard headers** checkbox. Note that duplicate header names are not allowed (ignoring the case difference) and you are prompted to remove any duplicate headers in the **Custom Headers** table. The selected HTTP headers are displayed under /httpheaders in Map Input.

## Specifying the response headers

1. Select the **Response Headers** task from the Checklist. The **Response Headers** pane is displayed. A Custom Headers table is displayed at the top, a **Include pre-defined standard headers** checkbox is displayed in the middle, and a **Standard Headers** table is displayed at the bottom.
2. Click the **Add** button to add a header to the **Custom Headers** table. Click on the new entry to enter a header name or select a header name from the drop down list. If the header name is a pre-defined header name, a description is displayed in the **Description** column, otherwise enter your own description for your headers.
3. To use the pre-defined standard headers, check the **Include pre-defined standard headers** checkbox. Note that duplicate header names are not allowed (ignoring the case difference) and you are prompted to remove any duplicate headers in the **Custom Headers** table. The selected HTTP headers are displayed under /httpheaders in Map Output.

## Specifying the retry options

1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
2. Configure the retry options to connect to an HTTP Server. The following table defines the retry options for connecting to an HTTP Server:

Field	Description

Retry	Â
1) Wait --- second s betwee n each retry.	Specifies the amount of time (in seconds) that the Integration Appliance waits before trying to establish a connection to the HTTP server.
2) Try to connect --- times before failing.	Specifies the retry count - the maximum number of times the Integration Appliance attempts to establish a connection to the HTTP Server before issuing an error and stopping the processing of the current orchestration job. If you deploy an orchestration that contains an <b>HTTP Delete Request</b> activity and the Integration Appliance cannot connect to the specified HTTP Server, the Integration Appliance logs the connections errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system and orchestration logs and the stops processing the current orchestration job. For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.
3) Time out after --- seconds when the Endpoi nt does not respond to a request.	Specifies the amount of time in seconds before a timeout occurs between the activity making a request on an Endpoint and the time it takes the Endpoint to respond. For the <b>HTTP Delete Request</b> activity, the activity timeout is the amount of time that the Integration Appliance waits for a response from the HTTP Server after sending a HTTP request, before the Integration Appliance issues a timeout error. An activity timeout is different from a connection timeout because an activity timeout occurs after the connection to the endpoint has been established. A connection timeout specifies the amount of time in seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the endpoint and the time it takes for the endpoint to respond to the connection request. You set the connection timeout in HTTP Endpoint tab. For more information about connection timeouts, see, <a href="#">Creating or Editing a Web Services Endpoint</a> .

## Mapping the input into the activity

1. Select the **Map Inputs** task in the **Checklist**. The body input parameter is displayed in the To Activity pane of the **Map Inputs** task. The body input parameter is optional. The body input parameter contains the body of the HTTP response message sent back to the HTTP server.
2. To view the optional input parameter in the To Activity pane of the Map Inputs pane, select Map > Show Optional Parameters from the toolbar menu or right-click in the To Activity pane and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click on a node in the Map Inputs pane to make this option active. The **httpheaders** and **httpConnParameter** input parameters are displayed.

The following table defines the nodes of the optional **httpheaders** input parameter:

Table 2.

Nodes of the <b>httpheaders</b> Input Parameter	Description
httpheaders/uri	Specifies the resource path, for example: /myPath.
httpheaders/<configured_header_name>	If you configured at least one request header in Request Headers step, each is displayed here. <configured_header_name> is replaced with the actual header names you selected or entered.
httpheaders/pathParameters	If you configured path parameters in the URL in Configure step, each is displayed here. If no path parameter is specified, this node does not display.
httpheaders/queryParameters	If you configured query parameters in the URL in Configure step, each one of them will be displayed here. If no query parameter is specified, this node does not display.
httpheaders/otherHeaders/headerItem	Specifies an element that contains a set of HTTP header parameters as name/value pairs for the HTTP response. Multiple HTTP parameters can be specified in the HTTP response, so this is a Â recurring node.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP parameter.

Nodes of the httpheaders Input Parameter	Description
httpheaders/otherHeaders/headerItem/value	Specifies the value of the HTTP parameter.

Note: If the Content-Length header is explicitly set using the `httpheaders/otherHeaders/headerItem/name` and `httpheaders/otherHeaders/headerItem/value`, during run time this value is ignored. This activity automatically sets the Content-Length header to the size of the body.

The following table defines the nodes of the optional `httpConnParameter` input parameter. You can optionally override the settings you specified in the Pick Endpoint task of the Checklist dynamically during run time by passing in values from variables into the nodes specified in the following table. For example during run time, you can override the Host Name specified in the endpoint, by mapping a variable to the host node of the `httpConnParameter` input parameter. During run time, the value of the variable is the host name used to connect the HTTP server.

Table 3.

Nodes of the httpConnParameter Input Parameter	Description	Overrides what settings in the HTTP endpoint?
timeout	Specifies the amount of time in seconds before a timeout occurs.	Â
host	Specifies the host name or IP address of the remote HTTP server.	The host node of the <code>httpConnParameter</code> input parameter overrides the Host Name field of the HTTP endpoint.
port	Specifies the port number of the remote HTTP server.	The port node of the <code>httpConnParameter</code> input parameter overrides the Port field of the HTTP endpoint.
isSecure	Set this boolean equal to true to enable HTTPS - secure HTTP over SSL. Set this boolean equal to false to disable security.	The <code>isSecure</code> node of the <code>httpConnParameter</code> input parameter overrides the Security option in the HTTP endpoint.
username	Specifies the user name for the account used to connect to the HTTP server.	The <code>username</code> node of the <code>httpConnParameter</code> input parameter overrides the User Name field in the HTTP endpoint.
password	Specifies the password for the account used to connect to the HTTP Server.	The <code>password</code> node of the <code>httpConnParameter</code> input parameter overrides the Password field in the HTTP endpoint.

3. Create a map between the orchestration variable or variables and the input parameter or parameters. See [Creating a map](#) for general instructions on mapping

## Mapping the output of the activity

1. Select the **Map Outputs** task in the **Checklist**. The output parameters of the activity are displayed in the From Activity pane of the **Map Outputs** task as described in the following table:

Table 4.

Output Parameter	Description
httpheaders	Specifies the header of the HTTP request.
body	Specifies the body of the HTTP request message.
responsecode	Specifies the HTTP Response Code that is returned from the HTTP Server during run time.
responsemessage	Specifies the message associated with the HTTP Response Code.

The following table defines the nodes of the optional `httpheaders` output parameter. Â

Table 5.

Nodes of the httpheaders Output Parameter	Description
httpheaders/uri	Specifies the resource path of the incoming request, for example: /myPath.

Nodes of the httpheaders Output Parameter	Description
httpheaders/<configured_header_name>	If you configured at least one response header in Response Headers step, each is displayed here. <configured_header_name> is replaced with the actual header names you selected or entered.
httpheaders/otherHeaders/headerItem	Specifies an element that contains a set of HTTP header parameters as name/value pairs. Multiple HTTP header parameters can be specified in the HTTP request, so this is a recurring node.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP header parameter.
httpheaders/otherHeaders/headerItem/value	Specifies the value of the HTTP header parameter.

2. Create a map between the output parameter or parameters of the activity and orchestration variable or variables. See [Creating a map](#) for general instructions on mapping.

## Using certificates with Microsoft Internet Explorer

If you have selected the HTTPS security option in the HTTP endpoint, note that Microsoft Internet Explorer does not recognize a modified certificate and caches the SSL state. If you modify certificates, you must clear the SSL state. To clear the SSL state in Microsoft Internet Explorer:

1. From the Microsoft Internet Explorer toolbar menu, select Tools > Internet Options.... The Internet Options pane is displayed.
2. Click the Content tab.
3. In the **Certificates** section, click Clear SSL State. The SSL Cache Cleared Successfully dialog box is displayed.
4. Click OK and click OK.

**Parent topic:** [HTTP Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http\\_delete\\_request\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http_delete_request_activity.html)

## Compression/Decompression with the HTTP Invoke/Get/Post/Head/Put/Delete Request activity

During runtime, the **HTTP Invoke/Get/Post/Head/Put/Delete Request** activity sends a HTTP request compliant with the HTTP/HTTPS 1.1 protocol to the HTTP Server.

Note: The **HTTP Invoke/Get/Post/Head/Put/Delete Request** activity supports compression/decompression with the gzip or the deflate formats. It does not support the common UNIX file compression format called compress.

The compression/decompression runtime behavior of the **HTTP Invoke/Get/Post/Head/Put/Delete Request** activity is dependant on the following conditions:

- If the endpoint supports compression/decompression
- The values of the Content-Encoding and Accept-Encoding headers at the message level
- The setting of the Use Compression/Decompression check box at the activity level

The affect of these conditions on the compression/decompression runtime behavior of the **HTTP Invoke/Get/Post/Head/Put/Delete Request** activity are described in the following sections and in the tables provided in the [Runtime Compression/Decompression Behavior](#) section.

## Endpoint support for compression/decompression

The Integration Appliance determines whether or not the HTTP Endpoint supports compression when the Integration Appliance sends the first HTTP request in the compressed format to the HTTP Endpoint (the HTTP Server), if the HTTP Server returns an error code indicating that HTTP Server does not support compression or does not support the specified Content-Encoding type, the Integration Appliance re-sends the first request in uncompressed format and all subsequent requests to this Endpoint are sent in the uncompressed format. In addition, the HTTP response sent by the HTTP Server is not decompressed when received by Integration Appliance.

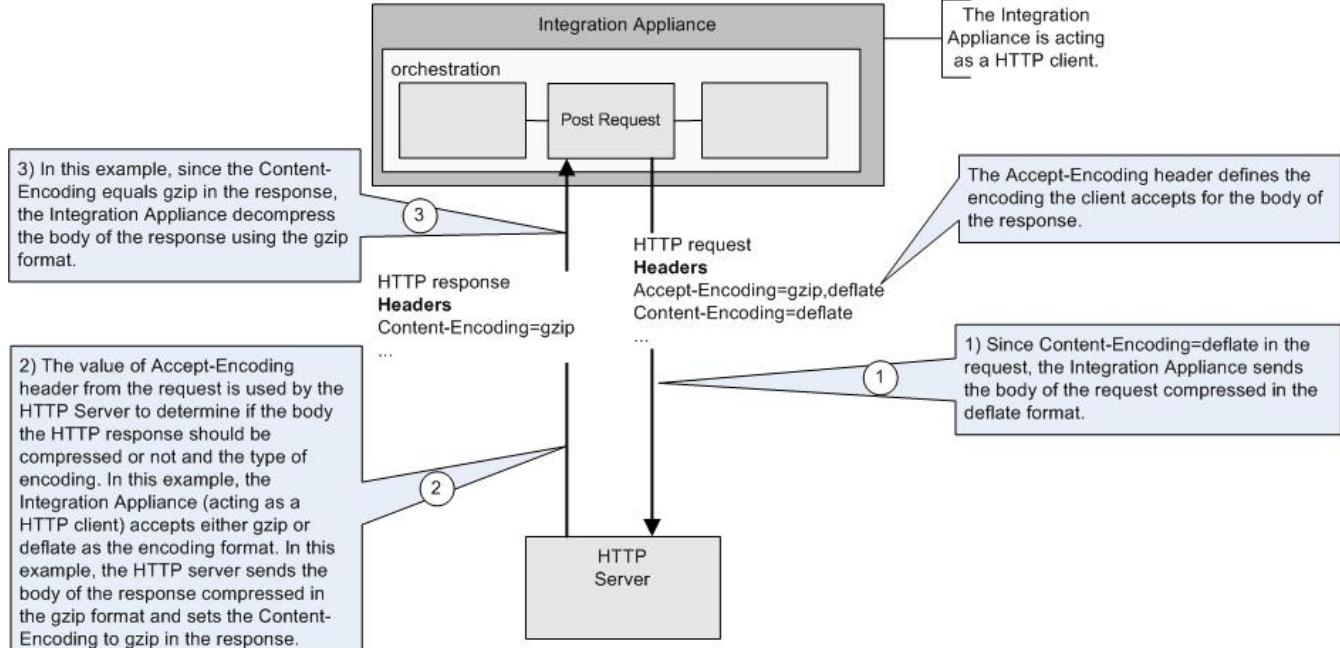
Endpoint support for compression/decompression is represented by the column labeled **Endpoint Supports Compression?** in the tables provided in the [Runtime Compression/Decompression Behavior](#) section.

## Content-Encoding and Accept-Encoding values at the message level

The value of the Content-Encoding header in the HTTP request determines if the body of the request is compressed and the type of encoding that is used. For example, if the Content-Encoding is equal to deflate, the Integration Appliance sends the body of the request compressed in the deflate format as shown in the second row of the first table labeled [Compression Behavior When Sending a Request](#) and in the following figure.

The value of the Accept-Encoding header in the request defines the types of encoding that the HTTP client accepts in the response. For example, if the Accept-Encoding is equal to **gzip,deflate** in the request, the HTTP server can send the body of the response compressed in gzip or deflate formats to the Integration Appliance (acting as a client) as shown in the following figure:

Figure 1.



By default, if nothing is mapped to the optional **httpheaders** input parameter in the **Map Inputs** task of the **HTTP Invoke/Get/Post/Head/Put/Delete Request** activity, a set of default headers are created. For example, the URL header is automatically set with the value provided in the Configure pane of the **HTTP Invoke/Get/Post/Head/Put/Delete Request** activity.

The values for the Accept-Encoding and Content-Encoding headers for the request can be explicitly set using name/value pairs in the optional **httpheaders** input parameter of the **Map Inputs** task in the **HTTP Invoke/Get/Post/Head/Put/Delete Request** activity. For example, to set the Content-Encoding to **deflate**, set the following name/value pair in the optional **httpheaders** input parameter:

- **httpheaders/httpheaders/otherHeaders/headerItem/name** is set to the string: Content-Encoding
- **httpheaders/httpheaders/otherHeaders/headerItem/value** is set to the encoding type, for example the string: deflate.

If unsupported values or no values are set for the Accept-Encoding and Content-Encoding headers of the request, default values are provided as shown in the following tables:

- [Compression behavior when sending a request](#)
- [Accept-Encoding Header value passed to the request](#)

The values of the Accept-Encoding and Content-Encoding headers in the request are used by the Integration Appliance and the HTTP server to determine the compression/decompression behavior.

## Setting compression/decompression at the activity level

By default, compression/decompression is not used for all HTTP activities. You can select compression or decompression at the activity level by using the Use Compression/Decompression check box that is displayed in the **Configure** task of the activity. The column labeled Use Compression/Decompression Check Box in the table shown in [Runtime Compression/Decompression Behavior](#) represents the setting of the Use Compression/Decompression check box.

Note: The Use Compression/Decompression check box will be deprecated in a future release for the HTTP activities. Use the Content-Encoding and Accept-Encoding HTTP Parameters in the HTTP request to specify how to decompresses the body of the HTTP request and compress the body of the HTTP response.

## **Runtime compression/decompression behavior**

---

The table provided in the [Compression behavior when sending a request](#) section describes the compression runtime behavior when the Integration Appliance sends a HTTP request to the HTTP server.

The table provided in the [Accept-Encoding Header value passed to the request](#) section describes the value of the Accept-Encoding header passed in the HTTP request.

The table provided in the [Decompression behavior when receiving a response](#) section describes the decompression runtime behavior when the Integration Appliance receives the HTTP response from the HTTP server.

## **Compression behavior when sending a request**

---

The following table describes the compression runtime behavior when the Integration Appliance sends a HTTP request to the HTTP server.

<b>Use Compression/ Decompression Check Box (Activity Level)</b>	<b>Content-Encoding Value in the HTTP Request (Message Level)</b>	<b>Endpoint Supports Compression?</b>	<b>Integration Appliance Compression Runtime Behavior When Sending a Request</b>
selected	gzip, not set, or any other string except deflate or identity	yes	The Integration Appliance sends the body of the request compressed in the gzip format. The Content-Encoding header is set to <b>gzip</b> in the request.
selected	deflate	yes	The Integration Appliance sends the body of the request compressed in the deflate format. The Content-Encoding header is set to <b>deflate</b> in the request.
selected	identity	yes	The Integration Appliance sends the body of the request uncompressed. The Content-Encoding header is set to <b>identity</b> in the request.
selected	value is not significant	no	The Integration Appliance sends the body of the request uncompressed. The Content-Encoding header is set to <b>identity</b> in the request.
cleared	value is not significant	value is not significant	The Integration Appliance sends the body of the request <b>as is</b> (unchanged). The current value of the Content-Encoding header is passed <b>as is</b> in the request.

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## **Accept-Encoding Header value passed to the request**

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The following table describes the value of the Accept-Encoding header passed in the HTTP request.

<b>Use Compression/ Decompression Check Box (Activity Level)</b>	<b>Initial Accept-Encoding Value</b>	<b>Endpoint Supports Compression?</b>	<b>Accept-Encoding Value Passed in the HTTP Request to the Server</b>
selected	gzip	yes	The Accept-Encoding header is set to <b>gzip</b> in the request.
selected	deflate	yes	The Accept-Encoding header is set to <b>deflate</b> in the request.

<b>Use Compression/ Decompression Check Box (Activity Level)</b>	<b>Initial Accept-Encoding Value</b>	<b>Endpoint Supports Compression?</b>	<b>Accept-Encoding Value Passed in the HTTP Request to the Server</b>
selected	gzip,deflate	yes	The Accept-Encoding header is set to <b>gzip,deflate</b> in the request.
selected	deflate,gzip	yes	The Accept-Encoding header is set to <b>deflate,gzip</b> in the request.
selected	identity	yes	The Accept-Encoding header is set to <b>identity</b> in the request.
selected	not set, or any other string except deflate, gzip, or identity	yes	The Accept-Encoding header is set to <b>gzip,deflate</b> in the request.
selected	value is not significant	no	The current value of the Accept-Encoding header is passed <b>as is</b> in the request.
cleared	value is not significant	value is not significantÂ	The current value of the Accept-Encoding header is passed <b>as is</b> in the request.

## Decompression behavior when receiving a response

The following table describes the decompression runtime behavior when the Integration Appliance receives the HTTP response from the HTTP Server.

<b>Use Compression/ Decompression Check Box (Activity Level)</b>	<b>Content-Encoding Value in the HTTP Response (Message Level)</b>	<b>Endpoint Supports Compression?</b>	<b>Integration Appliance Decompression Runtime Behavior When Receiving a Response</b>
selected	gzip	yes	The Integration Appliance decompresses the body of the response using the gzip format.
selected	deflate	yes	The Integration Appliance decompresses the body of the response using the deflate format.
selected	identity	yes	The Integration Appliance does not decompress the body of the response.
selected	value not listed in the Accept-Encoding header	yes	The Integration Appliance logs an error that the response data was received in an unsolicited content encoding type.
selected	value is not significant	no	The Integration Appliance does not decompress the body of the response. The current value of the Content-Encoding header is passed as is in the response.
cleared	value is not significant	value is not significant	The Integration Appliance does not decompress the body of the response. Â The current value of the Content-Encoding header is passed as is in the response.

Parent topic: [HTTP Activities](#)

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## Troubleshooting and support

Troubleshooting techniques and self-help information help you identify and solve problems quickly. Here, you can find potential solutions for issues you would have with the HTTP connector.

## Inconsistent behaviour of query parameters

---

**Problem:** The behavior of the query parameters passed to the HTTP receiver varies with the input. This inconsistency occurs for HTTP Put, Get, Invoke, Header, and Delete outbound activities. For these activities the URL with query parameters can be set at two places:

- Checklist > Configure panel > URL (Path After Hostname)
- Checklist > Map Inputs panel > To Activity section > httpheaders > uri

However, the query parameters set in the steps mentioned above can be replaced or overwritten in the Map Inputs panel > To Activity section > httpheaders > queryParameters. The behavior of the query parameters passed to the HTTP Receiver varies with the input.

**Solution:** Consider the following points when setting values:

- If the value of the URL is mapped and the value of the parameters are empty, then the URL is passed as is to the HTTP Receiver.
- If the value of the URL and the value of the parameter in the map are also assigned, then the HTTP Receiver gets the values. The URL with parameter values are appended to the URL.
- If value of the URL is not mapped, the url is build dynamically using the parameter values in the input map.

### Example:

Configure panel URI: /xyz/test?query2=c&query3=c&query5=c&query6=c

Map Inputs URI: /xyz/test?query4=u&query3=u

Map Inputs Query Parameter: query2=m and query3=m

End URL: /xyz/test?query4=u&query3=m&query2=m&query5=&query6=

## HTTP connector uses ISO-8859-1 as default character encoding value.

---

HTTP connector now uses ISO-8859-1 as default character encoding in place of UTF-8.

You can use any one of the following method to change this character encoding value:

- **Method 1:** To resolve the issue, please follow steps below:

1. Go to the HTTP Send Response activity
2. Add response header "Content-Type"
3. In Map Inputs, To Activity body, right click on the body element and click on "Show Optional Parameters"
4. Expand the (optional)httpheaders, and assign default value below to the "Content-Type" element:

text/plain; charset=UTF-8

- **Method 2:** Introduced new JVM level configuration property. You can change this to the required value. If you set any value in the HTTP activity, that will take highest priority. Next priority is given to the JVM level property (if available). If nothing is set in either place, then default value "ISO-8859-1" is used for content encoding.

- **Studio**

Property name: "ContentEncoding"  
Default value: "ISO-8859-1"

Once the Studio is launched, run jConsole in bin directory of JDK. In New Connection screen, under Local Process, select the process corresponding to the Studio and click Connect. Under MBeans tab, navigate to HttpModule > HTTP Loopback > Attributes > ContentEncoding. Change the default value to the required value.

- **Appliance**

Property name: HTTP\_CHARACTER\_ENCODING  
Default value: ""

Setting this attribute on the appliance will require system shell access to enable/disable jmexport. In system shell, issue the following command to check if any value is set for the property:

```
ihconfutil lookup /var/sysconf sysconf.db HTTP_CHARACTER_ENCODING
```

User will get output like:

```
ContentEncodingv: []
```

Now, try to set the value true to this property.

```
ihconfutil add /var/sysconf sysconf.db HTTP_CHARACTER_ENCODING <new value>
```

Now verify the value set using:

```
ihconfutil lookup /var/sysconf sysconf.db HTTP_CHARACTER_ENCODING
```

This results in

```
ContentEncodingv: [<new value>]
```

The hierarchy in appliance is

1. Jconsole property
2. Config property
3. Default value

If you want to change the value at runtime without restarting appliance you can use jconsole for appliance, but if you want to set the value and make it permanent, then you have to set in config properties. If nothing is set for both properties default (ISO-8859-1) is used.

**Parent topic:** [HTTP Activities](#)

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## InfoSphere MDM Activities

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- [Overview of InfoSphere MDM Cast Iron Connector](#)

The InfoSphere® MDM Cast Iron® connector enables cloud integration with on-premises InfoSphere MDM.

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## Overview of InfoSphere MDM Cast Iron Connector

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The InfoSphere® MDM Cast Iron® connector enables cloud integration with on-premises InfoSphere MDM.

Use the InfoSphere MDM Cast Iron connector to expose on-premises MDM business service as REST or web service provider services. Exposing the traditional MDM service for consumption in an enterprise SaaS integration enables reading, writing, searching, and processing notifications from your on-premises MDM.

InfoSphere MDM Cast Iron connector supports use of these MDM editions:

- IBM® InfoSphere Master Data Management Standard Edition 11.4.0
- IBM InfoSphere Master Data Management Advanced Edition 11.4.0

MDM Advanced Edition has many categories of web services, such as Party, Product, Custom Addition, Custom Extension, Custom Inquiry, and Party Maintenance. All of these web services are supported in InfoSphere MDM Cast Iron connector. In MDM standard edition, eSOA web services are supported in InfoSphere MDM Cast Iron connector.

The InfoSphere MDM Cast Iron connector supports both JSON and XML payload. The request to MDM can be either in JSON or XML. In the background at run time, the InfoSphere MDM Cast Iron connector makes a web service call to MDM and when the request is sent as a JSON payload, it is internally converted to XML before performing the web service call. The corresponding response is converted back to JSON before sending the response to the downstream activity.

- [Creating or editing an endpoint for MDM Connector activity](#)

The InfoSphere MDM and Cast Iron Connector endpoint provides information that Cast Iron Studio and the Integration Appliance use to connect to the InfoSphere MDM instance. MDM provides various services that can process create, retrieve, update, and delete operations for your on-premises MDM run time.

- [Updating modified MDM model or WSDL](#)

When working with multiple versions of InfoSphere MDM, there is a chance that the MDM model and WSDL will be modified.

- [Starting an MDM service activity](#)

Use these procedures to set your configuration properties and mapping details for an MDM service activity.

- [Troubleshooting and support](#)

Use this information to help identify and correct issues with the InfoSphere MDM and Cast Iron Connector.

**Parent topic:** [InfoSphere MDM Activities](#)

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## [Creating or editing an endpoint for MDM Connector activity](#)

---

The InfoSphere® MDM and Cast Iron® Connector endpoint provides information that Cast Iron Studio and the Integration Appliance use to connect to the InfoSphere MDM instance. MDM provides various services that can process create, retrieve, update, and delete operations for your on-premises MDM run time.

### About this task

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Use this procedure to select or edit an InfoSphere MDM Cast Iron endpoint.

### Procedure

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1. In the Create Endpoint or Edit Endpoint pane, click Browse to open the Project Explorer.
2. In the Project Explorer pane, select one of the following options for your WSDL file.
  - Select an existing WSDL file that is already uploaded into the project.
  - Select a WSDL file from the file system. Click Add and then browse for the WSDL file. Click Add again.
3. In Endpoint Connection Properties, provide values for these InfoSphere MDM run time connection properties.

Field name (Endpoint)	Description
Host Name	Host name of the MDM run time system
Port	Port value of the WC_defaulthost or WC_defaulthost_secure in the MDM run time; based on http or https.
User Name	MDM server user name
Password	MDM server password
Endpoint URL	Endpoint URL of the Soap request. By default this field contains the correct value. In eSOA, you can change the endpoint URL. If you do change the eSOA endpoint URL, make sure that you update this field.

4. Specify the security options.

When client authentication is required, select Client Certificate Alias Name and specify that the Integration Appliance that is acting as a client must provide a certificate to the HTTP Server. If selected, the name of the certificate must be provided. A certificate that is specified at the activity level with this check box takes precedence over a certificate that is specified in Security > Certificates > Settings > Client SSL in the WMC.

Note: This version of InfoSphere MDM connector supports SSL\_TLSv2 protocol version.

5. Provide values for these properties. Click Advanced Properties.

Field name (Advanced Properties)	Description
Connection Pool Options	<p>Specify the maximum number of connections.</p> <p>This value is the maximum number of connections that the Integration Appliance can open in the connection pool. Specifying 0 means that the number of connections is unlimited. By default, the Integration Appliance can have 25 connections open.</p>
Connection Timeout	<p>Specify the amount of time, in seconds, before a timeout occurs between the Integration Appliance attempting to establish a connection to the Endpoint and the time it takes for the Endpoint to respond to the connection request. For a web services activity, enter the amount of time that the Integration Appliance attempts to establish a connection to the web service before timing out.</p> <p>A connection timeout is different from an activity timeout. An activity timeout occurs after the connection to the Endpoint is established. An activity timeout specifies the amount of time, in seconds, before a timeout occurs between the activity that starts a request on an Endpoint and the time it takes the Endpoint to respond.</p> <p>Set the activity timeout in Retry task of the web services Invoke Service Activity.</p>
XML Schema Resolver	Determines the number of child levels that Cast Iron Studio allocates and displays for each XML schema (including WSDLs) in the opened project. For the details of each of the properties, see <a href="#">Other Preferences</a> .

**Parent topic:** [Overview of InfoSphere MDM Cast Iron Connector](#)

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## Updating modified MDM model or WSDL

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When working with multiple versions of InfoSphere® MDM, there is a chance that the MDM model and WSDL will be modified.

### About this task

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In such scenarios, you can attempt to update the existing WSDL with the new WSDL. For details, see [Updating a Changed WSDL](#).

**Parent topic:** [Overview of InfoSphere MDM Cast Iron Connector](#)

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## Starting an MDM service activity

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Use these procedures to set your configuration properties and mapping details for an MDM service activity.

- [Adding an activity](#)  
Use this procedure to add an Invoke MDM Service activity in the orchestration.
- [Creating an endpoint](#)  
Use this procedure to create, select, or edit an InfoSphere MDM endpoint.
- [Configuring the activity](#)  
Use this procedure to configure the Invoke MDM Service activity.
- [Specifying retry options](#)  
Use this procedure to specify retry options for the Invoke MDM Service activity.
- [Mapping activity input](#)  
Use this procedure to map input to the Invoke MDM Service activity.
- [Mapping activity output](#)  
Use this procedure to map the output of the Invoke MDM Service activity.

**Parent topic:** [Overview of InfoSphere MDM Cast Iron Connector](#)

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## Adding an activity

---

Use this procedure to add an Invoke MDM Service activity in the orchestration.

### Procedure

---

1. Create or open an orchestration to view. A graphical representation of the orchestration displays.
2. Select the Activities tab and expand the InfoSphere MDM folder.
3. Drag the Invoke MDM Service activity onto the orchestration.
4. Select the activity to display the checklist.

**Parent topic:** [Starting an MDM service activity](#)

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## Creating an endpoint

---

Use this procedure to create, select, or edit an InfoSphere® MDM endpoint.

### Procedure

---

1. Click Pick Endpoint task from the checklist and choose from one of the following actions:
  - Select an existing endpoint.
    - a. Select Browse.
    - b. On the Project Explorer, select an existing endpoint and click OK. Continue with [Configuring the activity](#)
  - Select an existing endpoint and edit the endpoint.
    - a. Select Browse.
    - b. On the Project Explorer, select an existing endpoint and click OK.

- c. Click Edit and make your changes in the Edit Endpoint pane.
  - o Create a new endpoint.
    - a. Select New.
    - b. Add information in the Create Endpoint pane.
2. Continue with [Creating or editing an endpoint for MDM Connector activity](#).

**Parent topic:** [Starting an MDM service activity](#)

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## Configuring the activity

---

Use this procedure to configure the Invoke MDM Service activity.

### Procedure

1. Select the Configure task from the checklist.
2. In the Configure pane, select a single MDM Service to start.
3. Select the Payload Type to specify what the input and output to the MDM service is. Options are XML or JSON String. If JSON string is selected, the Show JSON Schema option is enabled. Click Show JSON Schema to open the JSON Convertor dialog. Input the XML request and convert it to a JSON string.

**Parent topic:** [Starting an MDM service activity](#)

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## Specifying retry options

---

Use this procedure to specify retry options for the Invoke MDM Service activity.

### Procedure

1. Select Retry task from the checklist.
2. On the Retry pane, configure the retry options for connecting to an MDM Service. Retry options are described in this table.

Field	Description
Retry	Specifies the number of times that the Integration Appliance tries to run the service when it fails.
Wait ____ second(s) between each retry	Specifies the amount of time (in seconds) that the Integration Appliance waits before trying to establish a connection to the MDM Service.
Try to connect ____ times before failing	Specifies the retry count, which is the maximum number of times the Integration Appliance attempts to establish a connection to the MDM Service before recording an error. When the count is reached, processing of the current orchestration job is stopped.

	<p>If you deploy an orchestration that contains an Invoke MDM Service activity and the Integration Appliance cannot connect to the specified MDM Service, the Integration Appliance logs the connection errors as warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system and orchestration logs and the stops processing the current orchestration job.</p> <p>For example, the retry count is set to 3. The first, second, and third connection errors are shown in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.</p>
Time out after ___ seconds when the Endpoint does not respond to a request	<p>Specifies the amount of time (in seconds) before a timeout occurs between the activity making a request on an endpoint and the time it takes the endpoint to respond. For the Invoke MDM Service activity, the timeout is the amount of time that the Integration Appliance waits for a response from the MDM Service after attempting to start the service before the Integration Appliance issues a timeout error.</p> <p>An activity timeout is different from a connection timeout in that an activity timeout occurs after the connection to the endpoint is established. A connection timeout specifies the amount of time, in seconds, before a timeout occurs between the Integration Appliance attempting to establish a connection to the endpoint and the time it takes for the endpoint to respond to the connection request.</p> <p>Set the connection timeout in the Web Services Endpoint tab. For more information about connection timeouts, see <a href="#">Creating or editing an endpoint for MDM Connector activity</a>.</p>

**Parent topic:** [Starting an MDM service activity](#)

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## Mapping activity input

---

Use this procedure to map input to the Invoke MDM Service activity.

### About this task

The body input parameter that is listed in the To Activity pane of Map Input task for the selected operation can be either XML or JSON string based on the selected Payload Type.

Optional parameters are called ibmMDMConnectionProperties in the To Activity pane of the Map Inputs pane. To view the optional input parameters, select Map > Show Optional Parameters from the toolbar menu. You can also right-click in the To Activity pane and select Show Optional Parameters. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, clicking a node in the Map Inputs pane makes this option active.

You can override the setting of the Endpoint Connection Properties in the InfoSphere MDM Endpoint pane by setting the values for ibmMDMConnectionProperties. Typically, this value is overridden when the connection properties are dynamically passed from the upstream activity.

**Parent topic:** [Starting an MDM service activity](#)

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# Mapping activity output

---

Use this procedure to map the output of the Invoke MDM Service activity.

## Procedure

---

1. Select the Map Outputs task from the checklist. The output parameters of the activity display in the From Activity pane of the Map Outputs task.
2. Select the body output parameter. The parameter is either XML or JSON string, based on the selected Payload Type.

**Parent topic:** [Starting an MDM service activity](#)

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# Troubleshooting and support

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Use this information to help identify and correct issues with the InfoSphere® MDM and Cast Iron® Connector.

## Studio hangs while working on MDM-AE WSDL

---

### Problem:

While working on the party WSDL (InfoSphere MDM Advanced Edition), Cast Iron Studio hangs when you select the operation.

### Cause:

The MDM WSDL is large and is recursive in nature. Thus, the studio runs out of memory and hangs while attempting to load operations in the WSDL.

### Solution:

Make sure that the XML Schema Resolver properties are set to tuned values while working with the WSDL. Start with reasonably low value and then increase the property value based on project requirements. Typically, values for the XML Schema Resolver properties can be set as follows.

- Number of child node levels allocated in the memory for the schema=6
- Number of recursive node levels=4
- Number of child node levels that are initially expanded when the schema displayed graphically=3
- Number of child node levels allocated in the memory for the substituted types of schema=7

Also, make sure that the studio heap size is set to 1024 MB for 32-bit systems or 2048 MB for 64-bit systems.

**Parent topic:** [Overview of InfoSphere MDM Cast Iron Connector](#)

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# Insightly Activities

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- [Overview of Insightly connector](#)
- [Creating or editing an endpoint for Insightly activity](#)

Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to Insightly

platform. Insightly uses Basic API Key based authentication mechanism so as to authorize users to perform operations.

- [Using the Insightly Create Objects Activity](#)

Use the Create Objects activity to create objects in Insightly.

- [Using the Insightly Retrieve Objects Activity](#)

Use the Retrieve Objects activity to fetch the details of objects from Insightly.

- [Using the Insightly Update Objects Activity](#)

Use the Update Objects activity to update objects in Insightly.

- [Using the Insightly Delete Objects Activity](#)

Use the Delete Objects activity to delete objects in Insightly.

- [Using the Insightly Retrieve All Objects Activity](#)

Use the Retrieve All Objects activity to fetch the details of objects from Insightly.

- [Specifying the Retry options for Insightly connector activities](#)

Specifying the Retry parameters is one of the tasks to configure an Insightly activity. The Insightly connector automatically retries to connect to Insightly while executing any connector activity for the specified number of times in case it receives 503 Service unavailable or 504 Gateway timeout status code.

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## Overview of Insightly connector

---

Insightly is a great tool to help small businesses deal with the vital task of managing leads, contacts, organizations, partners, vendors and suppliers. It has prebuild Integration with Box, Drop Box, One Drive, Google Drive, Intuit QuickBooks and Xero.

Insightly is a cloud based CRM.

Key Features of Insightly are as below:

- Lead Management
- Contact Management
- Calendering and Events
- Linking (Direct Relationships Between Contacts, Organizations, Opportunities, Projects)
- Mass Email and Email Templates

The connector connects with Insightly platform and enables the communication with Insightly from IBM Cast Iron platform and allows getting data into and sending data out. The connector uses the REST APIs provided by Insightly platform, which allows users to interact with the Insightly objects like Contacts, Organisations etc. It enables users to Create, Update, Retrieve and Delete various types of records available in the application system.

You can perform the following activities using the Insightly connector:

- Create Objects
- Retrieve Objects
- Update Objects
- Delete Objects
- Retrieve All Objects

**Parent topic:** [Insightly Activities](#)

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## Creating or editing an endpoint for Insightly activity

Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to Insightly platform. Insightly uses Basic API Key based authentication mechanism so as to authorize users to perform operations.

### Selecting or editing an Insightly endpoint

1. In the Create Endpoint or Edit Endpoint pane, configure the Insightly endpoint as described in the following table.  
Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.
2. Click Test Connection to confirm that the connection details are valid and you are able to connect to the Insightly successfully.
3. Click OK.

Table 1. Connection properties

Field Name	Description
Host Name	Host Name for Insightly instance.
API Key	Authentication API Key for accessing Insightly instance.
Following parameters are required in endpoint test connection screen to make connection via Proxy:	
Host Name	Host Name of Proxy Network
Port	Port Number of the Proxy Network.
User Name	Specifies the user name for accessing service via proxy network.
Password	Specifies the password for accessing service via proxy network.

Note: In the Map Input section of each activity, relevant fields of endpoint panel are available to override at runtime. You can provide data to various groups of parameters like Proxy Details, Connection Details or Authentication Details to override. Providing only partial field data in a selected group is not allowed to override.

### Objects Supported by the Insightly Connector

Insightly connector supports the following Insightly objects:

Table 2. Operations supported by the Insightly objects

Insightly Objects	Create	Update	Delete	Retrieve	Retrieve All
Contacts	Yes	Yes	Yes	Yes	Yes
Organisation	Yes	Yes	Yes	Yes	Yes
Events	Yes	Yes	Yes	Yes	Yes
File Categories	Yes	Yes	Yes	Yes	Yes
Opportunities	Yes	Yes	Yes	Yes	Yes
Opportunity Categories	Yes	Yes	Yes	Yes	Yes
Projects	Yes	Yes	Yes	Yes	Yes
Task Categories	Yes	Yes	Yes	Yes	Yes
Tasks	Yes	Yes	Yes	Yes	Yes
Teams	Yes	Yes	Yes	Yes	Yes
Team Members	Yes	Yes	Yes	Yes	Yes
Notes	Yes	Yes	Yes	Yes	Yes
Lead Sources	Yes	Yes	Yes	Yes	Yes
Leads	Yes	Yes	Yes	Yes	Yes
Project Categories	Yes	Yes	Yes	Yes	Yes

<b>Insightly Objects</b>	<b>Create</b>	<b>Update</b>	<b>Delete</b>	<b>Retrieve</b>	<b>Retrieve All</b>
Lead Statuses	Yes	Yes	Yes		Yes
Emails			Yes	Yes	Yes
Countries					Yes
Currencies					Yes
Custom fields				Yes	Yes
Opportunity State Reasons					Yes
Pipelines				Yes	Yes
Pipeline Stages				Yes	Yes
Relationships					Yes
Tags				Yes	
Users				Yes	Yes
Contact Emails					Yes
Contact Notes					Yes
Contact Tasks					Yes
Lead Emails					Yes
Lead Notes					Yes
Lead Tasks					Yes
Opportunity Emails					Yes
Opportunity Notes					Yes
Opportunity Tasks					Yes
Organisation Emails					Yes
Organisation Notes					Yes
Organisation Tasks					Yes
Project Emails					Yes
Project Notes					Yes
Project Tasks					Yes

Note: The latest Insightly API version supported is v2.1.

## Custom Fields support

---

Insightly supports custom fields. Provision is given in the connector to create, update and retrieve objects having custom fields.

For Create and Update activities, in the Map Inputs, each object and its child nodes will have additional nodes for custom fields so that user can provide values for them.

For Retrieve activity, the response object will have additional nodes to identify the custom fields.

The format of custom fields for these activities is as shown below:

```
<customFields>
<customFieldName>secondemailid</customFieldName>
<customFieldValue>test.test@gmail.com</customFieldValue>
</customFields>
```

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## Using the Insightly Create Objects Activity

---

Use the Create Objects activity to create objects in Insightly.

### About this task

---

Use this task to create objects in Insightly. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Insightly endpoint to the orchestration and select Create Objects activity. The Create Objects activity will be added to the orchestration. Select the activity. Insightly Create Objects Checklist is displayed.
3. In the Checklist, click Configure.
4. Click Browse to select the object type. The Browse Insightly window is displayed.
5. In Browse Insightly, you can select the object type from the object type list. Click OK.
6. In the Checklist, click Retry. Review the default settings and make the required changes.  
*Note:* For more information, see [Specifying Retry options for Insightly REST API activities](#).
7. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Create Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
8. Create a map between the orchestration variables and the input parameter of the activity.  
*Note:* Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
9. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
10. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the Insightly Create Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences.

**Parent topic:** [Insightly Activities](#)

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## Using the Insightly Retrieve Objects Activity

---

Use the Retrieve Objects activity to fetch the details of objects from Insightly.

### About this task

---

Use this task to retrieve objects based on ID in the Insightly instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Insightly endpoint to the orchestration and select Retrieve Objects activity. The Retrieve Objects activity will be added to the orchestration. Select the activity. The Insightly Retrieve Objects Checklist is displayed.
3. In the Checklist, click Configure.
4. Click Browse to select the object type. The Browse Insightly window is displayed.
5. In Browse Insightly, you can select the object type from the object type list. Click OK.
6. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Retrieve Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
7. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying Retry options for Insightly REST API activities](#).
8. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
9. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
10. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Insightly Retrieve Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences.

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## Using the Insightly Update Objects Activity

---

Use the Update Objects activity to update objects in Insightly.

## About this task

---

Use this task to update objects in the Insightly instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Insightly endpoint to the orchestration and select Update Objects activity. The Update Objects activity will be added to the orchestration. Select the activity. Insightly Update Objects Checklist is displayed.
3. In the Checklist, click Configure.
4. Click Browse to select the object type. The Browse Insightly window is displayed.
5. In Browse Insightly, you can select the object type from the object type list. Click OK.
6. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Update Objects activity are displayed as nodes under the request input parameter in the To Activity panel.

7. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying Retry options for Insightly REST API activities](#).
8. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
9. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
10. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Insightly Update Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences.

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## Using the Insightly Delete Objects Activity

---

Use the Delete Objects activity to delete objects in Insightly.

### About this task

---

Use this task to delete objects in the Insightly instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Insightly endpoint to the orchestration and select Delete Objects activity. The Delete Objects activity will be added to the orchestration. Select the activity. Insightly Delete Objects Checklist is displayed.
3. In the Checklist, click Configure.
4. Click Browse to select the object type. The Browse Insightly window is displayed.
5. In Browse Insightly, you can select the object type from the object type list. Click OK.
6. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Delete Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
7. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying Retry options for Insightly REST API activities](#).
8. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
9. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
10. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Insightly Delete Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences.

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## Using the Insightly Retrieve All Objects Activity

---

Use the Retrieve All Objects activity to fetch the details of objects from Insightly.

### About this task

---

Use this task to retrieve all object details in the Insightly instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Insightly endpoint to the orchestration and select Retrieve All Objects activity. The Retrieve All Objects activity will be added to the orchestration. Select the activity. The Insightly Retrieve All Objects Checklist is displayed.
3. In the Checklist, click Configure.
4. Click Browse to select the object type. The Browse Insightly window is displayed.
5. In Browse Insightly, you can select the object type from the object type list. Click OK.
6. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Retrieve All Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
7. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying Retry options for Insightly REST API activities](#).
8. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
9. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
10. Create a map between the output parameters and orchestration variables.

#### Query Parameter

Below are the query parameters of the Retrieve All objects:

Table 1. Common Query parameters for all the Retrieve All Objects

Field Name	Description
top (n)	To fetch just the top n number of records.
skip (n)	To skip the first n number of records and fetch the rest of records.
filter	To fetch specific record/records based on the parameters: field_name, operator and value.
field_name	The standard field name to be used in the filter should be specified.
operator	The operator to be applied. (For e.g., the valid operators are eq, ne, gt, lt etc.)
value	The value for the field based on which result will be displayed.

Field Name	Description
orderby	The response can be displayed in ascending or descending order by defining field name and order.
field_name	The standard field name to be used to display the fields in order.
order	The order are ASC and DESC.

## Results

---

You have configured the Insightly Retrieve All Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences.

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## Specifying the Retry options for Insightly connector activities

---

Specifying the Retry parameters is one of the tasks to configure an Insightly activity. The Insightly connector automatically retries to connect to Insightly while executing any connector activity for the specified number of times in case it receives 503 Service unavailable or 504 Gateway timeout status code.

### About this task

---

Use this task to configure the Retry options for Insightly API activities.

### Procedure

---

1. Select the Retry task from the Checklist. The retry pane is displayed.
2. Configure the retry options and timeout options for connecting to an Insightly instance, as described in the following table:

Table 1. Retry options

Retry Fields	Description
Wait __ seconds between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the Insightly instance.
Retry __ times before failing.	Specifies the retry count – the maximum number of times the Integration Appliance attempts to establish a connection to the Insightly instance before issuing an error and stopping the processing of the current orchestration job. Note: If you deploy an orchestration that contains the Insightly REST API activity and the Integration Appliance cannot connect to the specified Insightly instance, the Integration Appliance logs the connection errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3, the first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.

Retry Fields	Description
Stop processing rest of the records of the batch if failure detected even after the configured no. of retries.	<p>Specifies that if a batch of records is sent as input to an orchestration, and if failure is detected in between, then the remaining records should be processed or not.</p> <p>For example, if the retry count is set to 3 and a batch of 5 records is sent as input to the orchestration. If, after processing the 1st record of batch, the Integration Appliance cannot connect to the specified Insightly instance even after configured number of retries i.e. 3 retry attempts, then the processing of the remaining 4 records will not be done and execution will be terminated if this option is selected.</p> <p>For the similar settings, if this option is not selected, then the remaining 4 records would be attempted to be processed.</p>

**Parent topic:** [Insightly Activities](#)

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## JDE Activities

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- [Overview of the JD Edwards \(JDE\) connector](#)
- [Creating or editing an endpoint for a JDE activity](#)

Endpoints provide the configuration information that Studio and the Integration Appliance use to connect to a JD Edwards EnterpriseOne transaction server (JDE server). Â

- [Importing JDE Libraries](#)  
You must import JDE instance-specific libraries on both Studio and the Integration Appliance before you can configure JDE endpoints, build orchestrations that use the JDE Connector, and deploy projects using the JDE Connector.
- [Installing JAR files to connect to the JDE server](#)  
You must copy the JDE JAR files on the same workstation as your Cast Iron Studio installation before you can connect to a JD Edwards EnterpriseOne transaction server (JDE server).
- [Using the JDE Invoke Business Function activity](#)  
Use the JDE Invoke Business Function activity to call a specific JDE business function. You can map the resulting output from this activity to an orchestration.
- [Using the JDE Poll Real-Time Events activity](#)  
Use the JDE Poll Real-Time Events activity to poll real-time events from JD Edwards EnterpriseOne transaction server. A real-time event is a business transaction that provides information from the JD Edwards EnterpriseOne server that can be used to interoperate with a vendor system. Real-time events can be generated wherever business functions run, such as HTML, WIN32, and enterprise servers. Real-time events are useful for producing notifications in real-time.
- [Specifying Retry and Delivery Options for JDE Activities](#)  
Specifying the Retry and Delivery parameters is one of the tasks to configure a JDE activity configuration.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_JDEactivities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_JDEactivities.html)

## Overview of the JD Edwards (JDE) connector

---

The JD Edwards (JDE) connector provides the ability for the appliance to interact with the JD Edwards EnterpriseOne server and perform certain business functions, without the need for special coding. The connector works with the JD Edwards EnterpriseOne server by sending requests to it and by monitoring and responding to events that occur in the JD Edwards EnterpriseOne server.

You can complete the following activities using the JDE connector:

- [Invoke Business Function](#)
- [Poll Real-Time Events](#)

The JDE connector supports the following versions of JDE Tools: 8.97, 8.98, and 9.1 (for Invoke Business Function). The connector is compatible with any version of JD Edwards EnterpriseOne that works with the supported versions of EnterpriseOne Tools.

The JDE connector requires JDE library files to connect to the JDE server. For more information, see [Installing JAR files to connect to the JDE server](#) and [Importing JDE Libraries](#).

**Parent topic:** [JDE Activities](#)

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## Creating or editing an endpoint for a JDE activity

---

Endpoints provide the configuration information that Studio and the Integration Appliance use to connect to a JD Edwards EnterpriseOne transaction server (JDE server). Â

1. In the Create Endpoint or Edit Endpoint pane, configure the JDE server as described in the following table. The endpoint pane contains Connection Information, Connection Pool Options and Remote Endpoint Configuration.  
Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.
2. Click Test Connection to confirm that the connection details are valid and you are able to connect to the JDE server successfully.
3. Click OK.

Table 1. Connection properties

Field Name	Description
<b>Connection Information</b>	
Environment	Specifies the JD Edwards EnterpriseOne environment name.
Role	Specifies the name of the role that is associated with the user name used to access the JD Edwards EnterpriseOne environment.
User Name	Specifies the user name to connect to the JDE server.
Password	Specifies the password associated with the user name to connect to the JDE server.
<b>Connection Pool options</b>	
Minimum Connections	Specifies the lowest number of JDE server connections that the Integration Appliance keeps open in the connection pool. Entering 0 (zero) is supported. The default value is 5.
Maximum Connections	Specifies the maximum number of JDE server connections that the Integration Appliance can keep open in the connection pool. Entering 0 (zero) means the maximum number of connections is unbounded. The default value is 25.
Maximum Idle Time	Specifies the amount of time in minutes that a JDE server connection can be open in an idle state before being closed by the Integration Appliance. Entering 0 (zero) means that the connections are closed when they are returned to the pool â€“ no idle time. The default value is 120 minutes.

Field Name	Description
Maximum Wait	Specifies the amount of time in seconds that the Integration Appliance waits for a connection when all the connections in the pool are exhausted. If no connection is obtained after the wait time, an exception is thrown. The default value is 300 seconds.
Reclaim Connections	Specifies the interval at which the connector checks for idle connections. Idle connections are reclaimed until the minimum number of connections is reached, as specified in the Minimum Connections parameter. The default value is 5 minute.
Note: The Connection pool properties need to be configured as per the load (number of concurrent requests) on the endpoint.	
<b>Remote Endpoint Configuration</b>	
Endpoint Runs Behind Firewall	Enables the secure connector name property so that secure connector can be used if the JDE server is running behind a firewall.
Secure Connector Name	Specifies the name of the secure connector that is used to connect to the JDE server running behind a firewall. For example, if an orchestration containing JDE activity is deployed on to Cast Iron Live (cloud), then the secure connector needs to be configured.

**Parent topic:** [JDE Activities](#)

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## Importing JDE Libraries

---

You must import JDE instance-specific libraries on both Studio and the Integration Appliance before you can configure JDE endpoints, build orchestrations that use the JDE Connector, and deploy projects using the JDE Connector.

### About this task

---

For information about installing the required library files on the Integration Appliance using the Web Management Console (WMC), see the WMC Online Help

### Procedure

---

To get copies of the required JDE provider modules:

1. Log on to the instance of your JDE system.
2. Import the following JDE files to the workstation where Studio is installed:
  - ApplicationAPIs\_JAR.jar
  - ApplicationLogic\_JAR.jar
  - Base\_JAR.jar
  - BizLogicContainer\_JAR.jar
  - BizLogicContainerClient\_JAR.jar
  - BusinessLogicServices\_JAR.jar
  - castor.jar
  - classes12.zip
  - commons-httpclient-3.0.jar
  - Connector.jar
  - EventProcessor\_EJB.jar
  - EventProcessor\_JAR.jar
  - Generator\_JAR.jar
  - JdbjBase\_JAR.jar
  - JdbjInterfaces\_JAR.jar
  - JdeNet\_JAR.jar
  - jmxremote.jar

- jmxremote\_optional.jar
- jmxri.jar
- log4j.jar
- ManagementAgent\_JAR.jar
- Metadata.jar
- MetadataInterface.jar
- ojdbc14.jar
- PMApi\_JAR.jar
- Spec\_JAR.jar
- System\_JAR.jar
- SystemInterfaces\_JAR.jar
- xalan.jar
- xerces.jar
- xmlparserv2.jar
- jdelog.properties
- tnsnames.ora
- jdbj.ini
- jdeinterop.ini

Note: You also need to add database driver JAR files. These JAR files depend on the JD Edwards Enterprise One server version and the database used. For more information about the required JAR list, contact the Oracle Support team.

3. After retrieving the required files, use the Add Providers dialog box to [install the JDE files](#) into Studio.

**Parent topic:** [JDE Activities](#)

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## Installing JAR files to connect to the JDE server

---

You must copy the JDE JAR files on the same workstation as your Cast Iron Studio installation before you can connect to a JD Edwards EnterpriseOne transaction server (JDE server).

### Before you begin

---

- The JAR files can be obtained from the JDE system administrator.
- The JAR files must be on the same computer as the studio installation.
- The JAR files must be from the same version as the JDE server you connect to.

For more information about importing the JAR files, see [Importing JDE Libraries](#).

### About this task

---

#### Procedure

---

1. Open studio and select Tools > Install Module Providers.
2. When the Add Provider(s) dialog box is displayed, click the plus (+) button under JDE. A field and a Browse button appears.
3. Click Browse, and use the browse dialog box to locate and select the JAR files.
4. Click Open to import the selected files.
5. When the JAR files are listed in the Add Provider(s) dialog box, click OK.

#### Results

---

A prompt is displayed to restart studio and activate the changes.

#### What to do next

---

You can now create JDE endpoints and orchestrations.

**Parent topic:** [JDE Activities](#)

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## Using the JDE Invoke Business Function activity

---

Use the JDE Invoke Business Function activity to call a specific JDE business function. You can map the resulting output from this activity to an orchestration.

### Before you begin

---

Ensure that you have:

- Imported the JDE library files required to connect to the JDE server. For more information, see [Installing JAR files to connect to the JDE server](#).
- Valid connection details to connect to the JDE server.

### About this task

---

Use this task to call a specific JDE business function from the JDE server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

- In an active orchestration, open the Activities tab and expand the JDE folder.
- Drag the Invoke Business Function activity icon onto the orchestration. The JDE Invoke Business Function Checklist is displayed.
- In the Checklist, click Summary.
- Review the contents of the Activity Name field, and make the required changes.
- In the Checklist, click Pick Endpoint.
- Click Browse and use the Project Explorer dialog box to select the relevant JDE endpoint.
- Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an endpoint for a JDE activity](#).
- To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
- In the Checklist, click Configure.
- In the JDE Business Function panel, click Browse to browse for business function names.
- In Browse JDE Business Functions dialog, select one or more business functions from the Business Function List, and add it to the Selected Business Functions pane.
- The Business Function Container field gets populated based on the first business function selected and click OK. You can also type the desired business function container name.

The selected business functions are displayed in the Configure panel.

- In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying Retry and Delivery Options for JDE Activities](#).
- Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Invoke Business Function activity are displayed as nodes under the request input parameter in the To Activity panel.
- Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a

mandatory element, the activity throws an exception, which is reported by the Web Management Console (WMC). If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the JDE Invoke Business Function activity.

**Parent topic:** [JDE Activities](#)

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## Using the JDE Poll Real-Time Events activity

---

Use the JDE Poll Real-Time Events activity to poll real-time events from JD Edwards EnterpriseOne transaction server. A real-time event is a business transaction that provides information from the JD Edwards EnterpriseOne server that can be used to interoperate with a vendor system. Real-time events can be generated wherever business functions run, such as HTML, WIN32, and enterprise servers. Real-time events are useful for producing notifications in real-time.

### Before you begin

---

Ensure that you have:

- Imported the JDE library files required to connect to the JDE server. For more information, see [Installing JAR files to connect to the JDE server](#).
- Valid connection details to connect to the JDE server.

### About this task

---

Use this task to poll real-time events from JD Edwards EnterpriseOne transaction server.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the JDE folder.
2. Drag the Poll Real-Time Events activity icon onto the orchestration. The JDE Poll Real-Time Events Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant JDE endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an endpoint for a JDE activity](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. In the JDE Real-Time Events panel, click Browse to browse for real-time events. The Browse JDE Real-Time Events dialog is displayed.
11. In Browse JDE Real-Time Events dialog, select a real-time event from the list and click OK. The selected real-time event is displayed in the Configure panel.
12. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying Retry and Delivery Options for JDE Activities](#).
13. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.

14. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the JDE Poll Real-Time Events activity.

**Parent topic:** [JDE Activities](#)

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## Specifying Retry and Delivery Options for JDE Activities

---

Specifying the Retry and Delivery parameters is one of the tasks to configure a JDE activity configuration.

### About this task

---

This section contains the procedure for configuring the retry options for JDE outbound and inbound activities.

### Procedure

---

1. Select the Retry task from the Checklist. The retry pane is displayed.
2. Configure the retry options for connecting to a JD Edwards EnterpriseOne transaction server as described in the following table.

Table 1. Retry options

Retry Fields	Description
Wait __ seconds between each retry .	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the JD Edwards EnterpriseOne transaction server.
Try to connect __ times before failing.	Specifies the retry count – the maximum number of times the Integration Appliance attempts to establish a connection to the JDE server before issuing an error and stopping the processing of the current orchestration job. Note: If you deploy an orchestration that contains the inbound or outbound JDE activity and the Integration Appliance cannot connect to the specified JDE server, the Integration Appliance logs the connection errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.

**Parent topic:** [JDE Activities](#)

## Specifying the delivery rules options for JDE inbound activities

---

### About this task

This section contains the procedure for configuring the delivery rule options for JDE inbound activities.

## Procedure

1. Select the Delivery Rules task from the Checklist. The delivery rules pane is displayed.
2. Configure the delivery rules options to select the activity's behavior as described in the following table.

Table 2. Delivery rules

Delivery Rules Fields	Description
Poll for changes every _____ days/hours/minutes/seconds	Specifies the time interval to poll for real-time events in the JD Edwards EnterpriseOne transaction server. Time can be selected in the format days, hours, minutes, or seconds.
Fetch _____ rows per poll	Specifies how many real-time events the activity should retrieve from the JD Edwards EnterpriseOne transaction server in each poll cycle.
Delivery Messages	
ATMOST_ONCE	A non-persistent mode in which a JDE real-time event is either delivered once or not delivered at all.
Wait time on JDE transaction server_____seconds	Specifies the time interval that the connector waits to get an event from the JD Edwards EnterpriseOne transaction server.

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## JIRA Activities

---

- [Overview of JIRA connector](#)

- [Creating or editing an endpoint for JIRA activity](#)

Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to JIRA platform. JIRA connector supports only Basic authentication mechanism so as to authorize users to perform operations. JIRA connector also supports HTTPS connection.

- [Using the JIRA Create Objects Activity](#)

Use the Create Objects activity to create an Attachment, Filter, Issue, IssueComment, IssueLink, IssueLinkType, IssueWorkLog, IssueVote, Version, ProjectRole and Watchers in JIRA.

- [Using the JIRA Retrieve Objects Activity](#)

Use the Retrieve Objects activity to fetch the details of an Attachment, Component, Filter, IssueLink, IssueLinkType, IssueType, Issue, IssueComment, IssueWorkLog, Version, ProjectRole, Group, Priority, Project, Resolution, User and Status from JIRA. Retrieve activity for Issue will retrieve custom fields data.

- [Using the JIRA Retrieve All Objects Activity](#)

Use the Retrieve All Objects activity to fetch the details of IssueComments, IssueLinkTypes, IssueTypes, IssueVotes, IssueWorkLogs, Priorities, Resolutions, Watchers and Statuses from JIRA.

- [Using the JIRA Update Objects Activity](#)

Use the Update Objects activity to update Filter, Issue, IssueComment, IssueLinkType, IssueWorkLog and Version in JIRA.

- [Using the JIRA Delete Objects Activity](#)

Use the Delete Objects activity to delete an Attachment, Component, Filter, Issue, IssueComment, IssueLink, IssueLinkType, IssueWorkLog, Version, Votes and Watchers in JIRA.

- [Using the JIRA Search Objects Activity](#)

Use the Search Objects activity to fetch the records which matches search string for Issue, User, UsersOverMultiProject, AssignableUser and UsersWithPermissions from JIRA. Search activity for Issue will get custom fields data.

- [Specifying the Retry options for JIRA REST API activities](#)

Specifying the Retry parameters is one of the tasks to configure a JIRA activity. The JIRA REST API connector uses a single login session for all connections to an JIRA REST API endpoint. If a session expires, the connector automatically establishes a new session. The connector does not count the initial attempt to reacquiring the session as a retry attempt. The connector

assumes the typical connector retry behavior after the initial attempt to reacquire a session fails. The retriable exceptions include 503 and 504 error codes.

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## Overview of JIRA connector

---

JIRA is a proprietary issue tracking product, developed by Atlassian, commonly used for bug tracking, issue tracking, and project management functions. JIRA is the tracker for teams planning and building great products. JIRA captures and organizes issue, assign work and follow team activity. Customizable reporting allows monitoring the progress of issues with detailed graphs and charts.

JIRA support both on premise and cloud environments.

JIRA connector interacts with restful Web Service API's, which allow you to access bi-directional data-level integration.

You can perform the following activities using the JIRA connector:

- Outbound activities:
  - Create Objects
  - Retrieve Objects
  - Update Objects
  - Delete Objects
  - Retrieve All Objects
  - Search Objects

The JIRA version currently supported by this connector is 6.4.7 (on premise)

**Parent topic:** [JIRA Activities](#)

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## Creating or editing an endpoint for JIRA activity

---

Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to JIRA platform. JIRA connector supports only Basic authentication mechanism so as to authorize users to perform operations. JIRA connector also supports HTTPS connection.

### Selecting or editing an JIRA endpoint

---

1. In the Create Endpoint or Edit Endpoint pane, configure the JIRA endpoint as described in the following table.  
Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.
2. Click Test Connection to confirm that the connection details are valid and you are able to connect to the JIRA successfully.
3. Click OK.

Table 1. Connection properties

<b>Field Name</b>	<b>Description</b>
Host Name	Host Name for JIRA instance (on-premise or cloud).
Port Number	Port for JIRA instance
User Name	Authentication user name for accessing JIRA instance.
Password	Authentication password for accessing JIRA instance.
Following parameters are required in endpoint test connection screen to make connection via Proxy:	
Host Name	Host Name of Proxy Network
Port	Port Number of the Proxy Network.
User Name	User Name for accessing service via proxy network.
Password	Password for accessing service via proxy network.
Following parameters are required in endpoint test connection screen to make HTTPS connection:	
HTTPS	Checkbox to indicate weather HTTPS to be used

In addition with the above parameters, there is also a provision for Secure Connector configuration to connect the Endpoint with JIRA on-premise instance.

Note: In the Map Input section of each activity, relevant fields of endpoint panel are available to override at runtime. You can provide data to various groups of parameters like Proxy Details, Connection Details or Authentication Details to override. Providing only partial field data in a selected group is not allowed to override.

## Objects Supported by the JIRA Connector

---

JIRA connector supports the JIRA objects as detailed in the table below:

Table 2. Operations supported by the JIRA objects

<b>JIRA Objects</b>	<b>Create</b>	<b>Update</b>	<b>Delete</b>	<b>Retrieve All</b>	<b>Retrieve</b>	<b>Search</b>
Attachment	Yes		Yes		Yes	
Component			Yes		Yes	
Filter	Yes	Yes	Yes		Yes	
Issue	Yes	Yes	Yes		Yes	Yes
IssueComment	Yes	Yes	Yes	Yes	Yes	
IssueLink	Yes		Yes		Yes	
IssueLinkType	Yes	Yes	Yes	Yes	Yes	
IssueWorkLog	Yes	Yes	Yes	Yes	Yes	
IssueVote	Yes			Yes		
Version	Yes	Yes	Yes		Yes	
ProjectRole	Yes				Yes	
Votes			Yes			
Watchers	Yes		Yes	Yes		
Group					Yes	
IssueType				Yes	Yes	
Priority				Yes	Yes	
Project					Yes	
Resolution				Yes	Yes	
Status				Yes	Yes	
User					Yes	Yes
UserOverMultiProject						Yes
AssignableUser						Yes

JIRA Objects	Create	Update	Delete	Retrieve All	Retrieve	Search
UsersWithPermissions						Yes

## Custom Objects support

---

JIRA does not support custom objects.

## Custom Fields support

---

The JIRA UI allows user to add custom fields. These fields are associated only with JIRA "Issue" object. Support for custom fields is provided in the connector activities - Create, Update, Search and Retrieve for the Issue object.

In the MapInputs for Create and Update activities, the Issue object will have additional nodes for custom fields so that user can provide values for them.

For Search and Retrieve activities, the MapOutputs will have additional nodes to identify the custom fields.

The format of custom fields for these activities is as shown below:

```
<customFields>
<customFieldId>dept-id</customFieldId>
  <customFieldName>deptName</customFieldName>
<customFieldType>FreeTextField</customFieldType>
  <customFieldValue>HR</customFieldValue>
</customField>
```

Table 3. Operations supported by the JIRA objects

Custom field parameter	Description
customFieldId	The ID of the custom field created in JIRA UI. Between the custom field Name and ID, the precedence is given to "customFieldId". If there are multiple custom fields with same name, the customFieldId should be provided to differentiate the fields, else appropriate error gets displayed.
customFieldName	The name of the custom field which is provided in JIRA UI while creating it.
customFieldType	<p>The type of custom field, displayed only for Create/Update activities. Allowed values are:</p> <ul style="list-style-type: none"> <li>• DatepickerField</li> <li>• DateTimeField</li> <li>• FreeTextField</li> <li>• Checkboxes</li> <li>• Labels</li> <li>• MultiSelect</li> <li>• RadioButtons</li> <li>• SelectList</li> <li>• TextField</li> <li>• URLField</li> <li>• UserPicker</li> <li>• GroupPicker</li> <li>• MultiGroupPicker</li> <li>• MultiUserPicker</li> <li>• ProjectPicker</li> <li>• SingleVersionPicker</li> <li>• VersionPicker</li> </ul> <p>The type of JIRA custom field types not yet supported are:</p> <ul style="list-style-type: none"> <li>• CascadingSelectField</li> <li>• NumberField</li> </ul>
customFieldValue	The value of the custom field. This parameter is recurring to support multiple user input values. If multiple values are provided for a single input field, only the first value gets added.

Note:

1. The custom field is optional.
2. If the value is not provided for customFieldName/customFieldId, the other 2 parameter values will be ignored and issue will get created/updated successfully without modification in any custom field.
3. If customFieldName, customFieldId and customFieldType is provided, an appropriate error message gets displayed for the missing value for customFieldValue.

**Parent topic:** [JIRA Activities](#)

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## Using the JIRA Create Objects Activity

---

Use the Create Objects activity to create an Attachment, Filter, Issue, IssueComment, IssueLink, IssueLinkType, IssueWorkLog, IssueVote, Version, ProjectRole and Watchers in JIRA.

### About this task

---

Use this task to create objects in the JIRA. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the JIRA folder contents.
2. Drag the Create Objects activity icon onto the orchestration. Select the activity. The JIRA Create Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant JIRA endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse JIRA window is displayed.
11. In Browse JIRA, you can select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for JIRA REST API activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Create Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the JIRA Create Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the Object Name (For example: Attachment) field in the To Activity pane of Map Inputs, and select Expand Occurrences.

JIRA also supports custom field value creation. Please refer section about [Custom Fields support](#) for more information.

**Parent topic:** [JIRA Activities](#)

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## Using the JIRA Retrieve Objects Activity

---

Use the Retrieve Objects activity to fetch the details of an Attachment, Component, Filter, IssueLink, IssueLinkType, IssueType, Issue, IssueComment, IssueWorkLog, Version, ProjectRole, Group, Priority, Project, Resolution, User and Status from JIRA. Retrieve activity for Issue will retrieve custom fields data.

### About this task

---

Use this task to retrieve objects based on ID in the JIRA instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the JIRA folder contents.
2. Drag the Retrieve Objects activity icon onto the orchestration. Select the activity. The JIRA Retrieve Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant JIRA endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse JIRA window is displayed.
11. In Browse JIRA, you can select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for JIRA REST API activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Retrieve Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the JIRA Retrieve Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the Object Name (For example: Attachment) field in the To Activity pane of Map Inputs, and select Expand Occurrences.

**Parent topic:** [JIRA Activities](#)

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## Using the JIRA Retrieve All Objects Activity

---

Use the Retrieve All Objects activity to fetch the details of IssueComments, IssueLinkTypes, IssueTypes, IssueVotes, IssueWorkLogs, Priorities, Resolutions, Watchers and Statuses from JIRA.

### About this task

---

Use this task to retrieve all object details in the JIRA instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the JIRA folder contents.
2. Drag the Retrieve All Objects activity icon onto the orchestration. Select the activity. The JIRA Retrieve All Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant JIRA endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse JIRA window is displayed.
11. In Browse JIRA, you can select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for JIRA REST API activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Retrieve Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the JIRA Retrieve All Objects activity.

**Parent topic:** [JIRA Activities](#)

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## Using the JIRA Update Objects Activity

---

Use the Update Objects activity to update Filter, Issue, IssueComment, IssueLinkType, IssueWorkLog and Version in JIRA.

### About this task

---

Use this task to update objects in the JIRA instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the JIRA folder contents.
2. Drag the Update Objects activity icon onto the orchestration. Select the activity. The JIRA Update Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant JIRA endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse JIRA window is displayed.
11. In Browse JIRA, you can select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes.  
*Note:* For more information, see [Specifying the Retry options for JIRA REST API activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Retrieve Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.  
*Note:* Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the JIRA Update Objects activity.

*Note:*

You can add more than one object as input to this activity. To add more than one object as input, right click the Object Name (For example: Filter) field in the To Activity pane of Map Inputs, and select Expand Occurrences.

JIRA also supports updating custom field value. Please refer section about [Custom Fields support](#) for more information.

**Parent topic:** [JIRA Activities](#)

---

[Feedback](#) | [Notices](#)

## Using the JIRA Delete Objects Activity

---

Use the Delete Objects activity to delete an Attachment, Component, Filter, Issue, IssueComment, IssueLink, IssueLinkType, IssueWorkLog, Version, Votes and Watchers in JIRA.

### About this task

---

Use this task to Delete objects in the JIRA instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the JIRA folder contents.
2. Drag the Delete Objects activity icon onto the orchestration. Select the activity. The JIRA Delete Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant JIRA endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse JIRA window is displayed.
11. In Browse JIRA, you can select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for JIRA REST API activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Retrieve Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the JIRA Delete Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the Object Name (For example: Filter) field in the To Activity pane of Map Inputs, and select Expand Occurrences.

**Parent topic:** [JIRA Activities](#)

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## Using the JIRA Search Objects Activity

---

Use the Search Objects activity to fetch the records which matches search string for Issue, User, UsersOverMultiProject, AssignableUser and UsersWithPermissions from JIRA. Search activity for Issue will get custom fields data.

## About this task

---

Use this task to Search objects in the JIRA instance by setting query parameters. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the JIRA folder contents.
2. Drag the Search Objects activity icon onto the orchestration. Select the activity. The JIRA Search Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant JIRA endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse JIRA window is displayed.
11. In Browse JIRA, you can select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for JIRA REST API activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Retrieve Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables. **Query Parameter**

Below are the query parameters of the Search objects:

Table 1. Common Query parameters for all the Search Objects

Field Name	Description
startAt	The index of the first record to return (0-based)
maxResults	The maximum number of users to return (defaults to 50). The maximum allowed value is 1000. If you specify a value that is higher than this number, your search results will be truncated.

Table 2. Query parameters for Issue Objects

Field Name	Description
validateQuery	This parameter is used to validate the JQL query
responseFields	The list of fields to return for each issue. By default, all navigable fields are returned.
criteria	field, operator, value and logicalOperator is defined in criteria. Multiple criteria can be specified by expanding occurrences for the criteria node.
field	The standard field name to be used in the criteria should be specified.
operator	The operator to be applied. (For Ex: The valid operators are =, !=, <, >, <=, >=, ~, !~, IN, NOT IN, IS and IS NOT)
value	The value of the field used in the search
logicalOperator	The logical operator to be applied (For Ex: Valid logical operators are AND, OR, NOT and ORDER BY)
orderBy	field and order is defined in orderBy. Multiple orderby can be specified by expanding occurrences for the orderBy node

Field Name	Description
field	The standard field name to be used to display the fields in order
order	The order are ASC and DESC

Table 3. Common Query parameters for User Objects

Field Name	Description
includeActive	The parameter is used to include the active users
includeInactive	The parameter is used to include the inactive users

Table 4. Common Query parameters for UserWithPermission Objects

Field Name	Description
permissions	comma separated list of permissions for project or issue returned users must have

Note: Enumeration is not supported by connector so user has to enter the data in query parameters.

## Results

---

You have configured the JIRA Search Objects activity.

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## Specifying the Retry options for JIRA REST API activities

---

Specifying the Retry parameters is one of the tasks to configure a JIRA activity. The JIRA REST API connector uses a single login session for all connections to an JIRA REST API endpoint. If a session expires, the connector automatically establishes a new session. The connector does not count the initial attempt to reacquiring the session as a retry attempt. The connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails. The retriable exceptions include 503 and 504 error codes.

### About this task

---

This section contains the procedure for configuring the Retry options for JIRA REST API activities.

### Procedure

---

1. Select the Retry task from the Checklist. The retry pane is displayed.
2. Configure the retry and timeout options for connecting to an JIRA instance, as described in the following table:

Table 1. Retry options

Retry Fields	Description
Wait __ seconds between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the JIRA instance.

Retry Fields	Description
Retry __ times before failing.	<p>Specifies the retry count – the maximum number of times the Integration Appliance attempts to establish a connection to the JIRA instance before issuing an error and stopping the processing of the current orchestration job.</p> <p>Note: If you deploy an orchestration that contains the JIRA REST API activity and the Integration Appliance cannot connect to the specified JIRA instance, the Integration Appliance logs the connection errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3, the first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.</p>
Stop processing rest of the records of the batch if failure detected even after the configured no. of retries.	<p>Specifies that if a batch of records is sent as input to an orchestration, and if failure is detected in between, then the remaining records should be processed or not.</p> <p>For example, if the retry count is set to 3 and a batch of 5 records is sent as input to the orchestration. If, after processing the 1st record of batch, the Integration Appliance cannot connect to the specified JIRA instance even after configured number of retries i.e. 3 retry attempts, then the processing of the remaining 4 records will not be done and execution will be terminated if this option is selected.</p> <p>For the similar settings, if this option is not selected, then the remaining 4 records would be attempted to be processed.</p>

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## JMS Activities

---

- [Creating or editing a JMS endpoint](#)

JMS endpoints provide information that Studio and the Integration Appliance use to connect to a JMS instance.

- [Specifying delivery rules and retry parameters for JMS activities](#)

The JMS Connector uses a single login session for all connections to a JMS endpoint. If a session expires, the connector automatically establishes a new session. The JMS Connector does not count the initial attempt to reacquiring the session as a retry attempt. The JMS Connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails.

- [Get Message activity](#)

You can use the Get Message activity to get a message from the queue. If there is no message present the activity can time out.

- [Poll Message activity](#)

The Poll Message activity is a starter activity that polls the configured queue for the message. This activity supports the ATLEAST ONCE and EXACTLY ONCE delivery semantics. The Poll Message Activity supports batching, if the batching option is selected.

- [Publish Message activity](#)

The Publish Message activity is an executable activity that allows you to publish data on the configured topic. This activity supports the ATLEAST ONCE and ATMOST ONCE delivery semantics.

- [Send Message activity](#)

The Send Message activity is an executable activity that sends message to the configured queue. The Send Message activity supports the AT LEAST and AT MOST ONCE delivery semantics. Request-reply use cases can use the Poll Message and Send Message activity; there is no separate activity for reply.

- [Subscribe Message activity](#)

The Subscribe Message activity is a starter activity that allows you to subscribe to a JMS topic. This activity supports the ATLEAST ONCE and EXACTLY ONCE delivery semantics.

- [Creating a JMS endpoint to a WebLogic server](#)

You can define a JMS endpoint to an existing WebLogic server, by completing the following steps in IBM Cast Iron Studio.

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## Creating or editing a JMS endpoint

---

JMS endpoints provide information that Studio and the Integration Appliance use to connect to a JMS instance.

### About this task

---

Any changes you make to the endpoint, including configuration properties, affects all orchestrations that use that endpoint as the edits are global, not local.

### Procedure

---

1. Drag an activity from the JMS folder of the Activities tab onto the orchestration.
2. The Summary panel is displayed along with a Checklist, which outlines what you must do to configure the activity.
3. Click Pick Endpoint from the Checklist. The Pick Endpoint panel opens.
4. Click one of the following options:
  - Browse - To select an existing endpoint from the Project Explorer. The Project Explorer shows all the endpoints in the project available for the activity. When you select an endpoint, the endpoint properties are displayed in the Pick Endpoint panel. To edit the endpoint properties, click Edit.
  - New - To create a new endpoint. The Create Endpoint window opens.
  - Edit - To edit the existing endpoint. The Edit Endpoint window opens.  
Note: Editing an endpoint affects all orchestrations that use that endpoint in the project as the edits are global, not local.
5. In the Create Endpoint window, specify connection parameters or select a configuration property by clicking the icon to the right of the fields. Required fields are denoted by the following icon 

Connection Parameter Fields	Description
JNDI Initial Factory	Specifies the context factory class Studio retrieves from JNDI. Studio uses the class to lookup JMS connection factory and JMS destinations (Queue or Topic).
Provider URL	Specifies the URL of the JMS server.
Provider Package	An optional parameter, where you can specify a provider package name.
Factory Name	Use your own connection factory or use one of the default factories that comes preconfigured with the endpoint system: JBOSS, ActiveMQ, or WebLogic.

- Specify Provider login information, which includes user name and password.
- Specify Connection Pool Options.

Connection Pool Options	Description
Minimum Connections	Specifies the minimum number of connections that Studio uses to connect to a JMS instance. By default, there is a minimum of 1 connection.
Maximum Connections	Specifies the maximum number of connections that Studio uses to connect to a JMS instance. By default, there is a maximum of 25 connections.
Maximum Idle Time	By default, maximum idle time is 120 minutes.
Maximum Wait	By default, maximum wait time is 300 seconds.

6. Specify properties for the JNDI Provider, so you can set implementation specific JDNI initial context properties for tasks such as authentication.
  - a. Click  to add a field in the JNDI Provider table. A new row is displayed in the table.
  - b. Enter a property name and value.
7. Specify properties for the Connection Factory, so you can set implementation specific connection properties.
  - a. Click  to add a field in the Connection Factory table. A new row is displayed in the table.
  - b. Enter a property name and value.
8. Click Test Connection to confirm that the parameters you specified so that the project can access a JMS instance.  
Note: When you configure an endpoint using configuration properties, verify that the configuration properties have valid values. If the configuration property value is invalid or does not exist, the connection test fails.

**Parent topic:** [JMS Activities](#)

**Related tasks:**

[Get Message activity](#)  
[Poll Message activity](#)  
[Publish Message activity](#)  
[Send Message activity](#)  
[Subscribe Message activity](#)

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## Specifying delivery rules and retry parameters for JMS activities

---

The JMS Connector uses a single login session for all connections to a JMS endpoint. If a session expires, the connector automatically establishes a new session. The JMS Connector does not count the initial attempt to reacquiring the session as a retry attempt. The JMS Connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails.

- [Specifying delivery rules parameters for JMS activities](#)  
Specifying the Delivery Rules parameters is one of the tasks you must complete to configure a JMS activity.
- [Specifying retry parameters for JMS activities](#)  
Specifying the Retry parameters is one of the tasks you must complete to configure a JMS activity.

**Parent topic:** [JMS Activities](#)

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## Specifying delivery rules parameters for JMS activities

---

Specifying the Delivery Rules parameters is one of the tasks you must complete to configure a JMS activity.

### About this task

---

For more information about the configuration tasks in the Checklist, see the help topic for the specific JMS activity.

### Procedure

---

1. In the Checklist, select Delivery Rules. The Delivery Rules panel opens.
2. For the Poll Message activity only, specify the polling interval. By default, the activity polls for changes every second.
3. Select Batch objects to process the job as a batch.
4. Select one of the following delivery options.

Note: The delivery options available depend on the JMS activity. Not all delivery options are available for every JMS activity.

Delivery Option	Description
ATLEAST_ONCE	A persistent mode, in which the JMS Provider insures that a message is not lost. As a result, there are chances that the client can receive multiple copies of a single message.Â
ALMOST_ONCE	In this non-persistent mode, a message may be lost, but JMS does not deliver multiple copies of a message.Â
EXACTLY_ONCE	In this persistent mode, JMS delivers a message once and only once.

**Parent topic:** [Specifying delivery rules and retry parameters for JMS activities](#)

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## Specifying retry parameters for JMS activities

Specifying the Retry parameters is one of the tasks you must complete to configure a JMS activity.

### About this task

For more information about the configuration tasks in the Checklist, see the help topic for the specific JMS activity.

### Procedure

1. In the Checklist, select Retry. The Retry panel opens.
2. Configure the retry options for connecting to a JMS instance. The following table describes the retry options for connecting to a JMS instance:

Retry Fields	Description
Wait __ second(s) between each retry.	The number of seconds that the Integration Appliance waits before trying to establish a connection to the JMS instance. By default, this parameter is set to 30 seconds
Try to connect __ times before failing.	Specifies the retry count, the maximum number of times that the Integration Appliance attempts to establish a connection to the JMS instance before issuing an error and stopping the processing of the current orchestration job. By default this parameter is set to 5 attempts.Â

3. For the Get Message activity, specify a value for the Activity Timeout parameter.

**Parent topic:** [Specifying delivery rules and retry parameters for JMS activities](#)

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## Get Message activity

---

You can use the Get Message activity to get a message from the queue. If there is no message present the activity can time out.

### About this task

---

The Get Message Activity supports batching, if the batching option is selected. When the batching option is selected, if there is more than one message in the queue, the activity processes all the messages at once, instead of processing them one at a time.

Important: This orchestration must already have a JMS endpoint representing the data source. Otherwise, input and output mapping is disabled.

- [Adding a JMS activity to an orchestration](#)
- [Changing the Activity Name](#)
- [Picking a JMS endpoint](#)
- [Configuring the Get Message activity](#)
- [Mapping the Inputs](#)

Inputs represent data that is transmitted from the orchestration (variables) to the JMS endpoint (parameters).

- [Mapping the Outputs](#)

Outputs represent data that is transmitted from the JMS activity (parameters) to the orchestration (variables).

**Parent topic:** [JMS Activities](#)

**Related tasks:**

[Creating or editing a JMS endpoint](#)

[Poll Message activity](#)

[Publish Message activity](#)

[Send Message activity](#)

[Subscribe Message activity](#)

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## Adding a JMS activity to an orchestration

---

### Procedure

---

1. In an active project, open the Activities tab and expand the JMS folder contents.
2. Drag the Get Message activity icon to the orchestration.
3. When the activity is displayed, the Get Message Checklist is displayed underneath.

**Parent topic:** [Get Message activity](#)

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## Changing the Activity Name

---

## Procedure

---

1. In the Checklist, click Summary.
2. Review the contents of the Activity Name field and make any required changes.

**Parent topic:** [Get Message activity](#)

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## Picking a JMS endpoint

---

### Procedure

---

1. In the Checklist, click Pick Endpoint.
2. Click Browse and use the Project Explorer dialog box to select the relevant JMS endpoint.  
**Tip:** You can create the needed endpoint at this time by clicking New.
3. When you click OK, the endpoint-specific configuration options are displayed in a read-only state.  
**Note:** If changes are required to the selected endpoint configuration, click Edit to activate the options. Any changes you make globally affects all uses of the endpoint in active orchestrations.

**Parent topic:** [Get Message activity](#)

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## Configuring the Get Message activity

---

### Procedure

---

1. In the Checklist, click Configure.
2. In the Queue field, specify the provider-specific name of the queue to be polled.
3. Open the Message Data menu and choose the format the message takes, whether Bytes or Text.
4. In the Message Selector field, enter the text of a message header.

Using the JMS message selector a client can specify, by submitting the text of a message header, those messages it is interested in. Only messages whose headers and properties match the selector are delivered. Message selectors cannot reference message body values. The message selector string must follow JMS selector syntax.

5. In the Checklist, click Delivery Rules.
6. Click the Batch Objects checkbox to activate the option, which enables the activity to batch-process multiple messages.
7. Open the Deliver menu and choose either option: ATLEAST\_ONCE or ATMOST\_ONCE
8. In the Checklist, click Retry.
9. Review the default settings and make any needed changes.

For more information, see [Specifying retry parameters for JMS activities](#)

**Parent topic:** [Get Message activity](#)

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## Mapping the Inputs

---

Inputs represent data that is transmitted from the orchestration (variables) to the JMS endpoint (parameters).

### Before you begin

---

If required, you can create a custom mapping variable in Source or Destination column by following the steps in [Creating variables](#).

### Procedure

---

1. In the Checklist, click Map Inputs. A set of options is displayed, and the To Activity list shows the JMS variables.
2. Click Select Inputs.

The Select Inputs dialog box lists all the variables.

3. Choose a variable, then click OK.
4. To link the activities, click and drag a variable from the From Orchestration list onto a parameter listed in the To Activity list.

If the link is viable, a line is displayed, linking the two.

5. Repeat this procedure to link other orchestration variables to JMS parameters.
6. To test the input links, click the Test button.

The Input Test Files table lists all linked variables/parameters.

7. In the Location column, click the small blue button.
8. Use the Browse dialog box to select an input test file.
9. Click Run Test. Test results are displayed in the columns underneath.

Tip: You can replace a variable used in the map without changing the links of the map. For more information, see [Replacing a Variable used in a Map](#).

**Parent topic:** [Get Message activity](#)

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## Mapping the Outputs

---

Outputs represent data that is transmitted from the JMS activity (parameters) to the orchestration (variables).

### Before you begin

---

If required, you can create a custom mapping variable in the Source or Destination column by following the steps in [Creating variables](#).

### Procedure

---

1. In the Checklist, click Map Outputs.
2. Review the parameters listed in the From Activity list.
3. If you want to create new orchestration variables that match the output parameters of the current activity, select a parameter and then click Copy.
4. In the Copy Parameters dialog box, choose one or more parameters, then click OK to add them to the To Orchestration list. The data type, schema, or schema fragment of the selected output parameter is applied to the new variable.
5. Click Select Inputs.

The Select Inputs dialog box lists all the variables associated with the other endpoint.

6. Choose one or more variables, then click OK to add them to this list.
7. Drag a parameter from the From Activity list onto a variable listed in the To Orchestration list.

If the link is viable, a line is displayed, linking the two.

8. Repeat this procedure to link other parameters and variables.
9. To test the output links, click the Test button. A variable is listed in an Input Test Files table.
10. In the Location column, click the small blue button.
11. Use the Browse dialog box to select an input test file.
12. Click Run Test. Test results are displayed in the columns underneath.

Tip: You can replace a variable used in the map without changing the links of the map. For more information, see [Replacing a Variable used in a Map](#).

**Parent topic:** [Get Message activity](#)

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## Poll Message activity

---

The Poll Message activity is a starter activity that polls the configured queue for the message. This activity supports the ATLEAST ONCE and EXACTLY ONCE delivery semantics. The Poll Message Activity supports batching, if the batching option is selected.

### About this task

---

The EXACTLY ONCE delivery semantic is handled through the message acknowledgement. Since the JMS provider must never deliver a copy of an acknowledged message, the Poll Message activity leverages the provider for the EXACTLY\_ONCE delivery semantic. When the batching option is selected, if there is more than one message in the queue, the activity processes all the messages at once, instead of processing them one at a time.

Important: This orchestration must have a JMS endpoint representing the data source, otherwise, output mapping is disabled.

- [Adding a JMS activity to an orchestration](#)
- [Changing the Activity Name](#)
- [Picking a JMS endpoint](#)
- [Configuring the Poll Message activity](#)
- [Mapping the Outputs](#)

Outputs represent data that is transmitted from the JMS activity (parameters) to the orchestration (variables).

**Parent topic:** [JMS Activities](#)

**Related tasks:**

[Creating or editing a JMS endpoint](#)

[Get Message activity](#)

[Publish Message activity](#)

[Send Message activity](#)

[Subscribe Message activity](#)

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## Adding a JMS activity to an orchestration

---

### Procedure

1. In an active project, open the Activities tab and expand the JMS folder contents.
2. Drag the Poll Message activity icon to the orchestration.
3. When the activity is displayed, the Poll Message Checklist is displayed underneath.

**Parent topic:** [Poll Message activity](#)

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## Changing the Activity Name

---

### Procedure

1. In the Checklist, click Summary.
2. Review the contents of the Activity Name field and make any required changes.

**Parent topic:** [Poll Message activity](#)

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## Picking a JMS endpoint

---

### Procedure

1. In the Checklist, click Pick Endpoint.
2. Click Browse and use the Project Explorer dialog box to select the relevant JMS endpoint.  
Tip: You can create the needed endpoint at this time by clicking New.
3. When you click OK, the endpoint-specific configuration options are displayed in a read-only state.  
Note: If changes are required to the selected endpoint configuration, click Edit to activate the options. Any changes you make globally affects all uses of the endpoint in active orchestrations.

**Parent topic:** [Poll Message activity](#)

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## Configuring the Poll Message activity

---

### Procedure

1. In the Checklist, click Configure.
2. In the Queue field, specify the provider-specific name of the queue to be polled.
3. Open the Message Data menu and choose the format the message takes, whether Byte or Text.
4. In the Message Selector field, enter the text of a message header.

Using a JMS message selector a client can specify, by submitting the text of a message header, those messages it is interested in. Only messages whose headers and properties match the selector are delivered. Message selectors cannot reference message body values. The message selector string must follow JMS selector syntax.

5. In the Checklist, click Delivery Rules.
6. In the Poll for changes field, select the preferred interval number.
7. Click the Batch Objects checkbox to activate the option, which enables the activity to batch-process multiple messages.
8. Open the Deliver menu and choose either option: ATLEAST\_ONCE, ATMOST\_ONCE, or EXACTLY\_ONCE
9. In the Checklist, click Retry.
10. Review the default settings and make any needed changes.

For more information, see [Specifying retry parameters for JMS activities](#)

**Parent topic:** [Poll Message activity](#)

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## Mapping the Outputs

---

Outputs represent data that is transmitted from the JMS activity (parameters) to the orchestration (variables).

### Before you begin

If required, you can create a custom mapping variable in the Source or Destination column by following the steps in [Creating variables](#)

### Procedure

1. In the Checklist, click Map Outputs.
2. Review the parameters listed in the From Activity list.
3. If you want to create new orchestration variables that match the output parameters of the current activity, select a parameter and then click Copy.
4. In the Copy Parameters dialog box, choose one or more parameters, then click OK to add them to the To Orchestration list. The data type, schema, or schema fragment of the selected output parameter is applied to the new variable.
5. Click Select Inputs.

The Select Inputs dialog box lists all the variables associated with the other endpoint.

6. Choose one or more variables, then click OK to add them to this list.

7. Drag a parameter from the From Activity list onto a variable listed in the To Orchestration list.

If the link is viable, a line is displayed, linking the two.

8. Repeat this procedure to link other parameters and variables.

9. To test the output links, click the Test button. A variable is listed in an Input Test Files table.

10. In the Location column, click the small blue button.

11. Use the Browse dialog box to select an input test file.

12. Click Run Test. Test results are displayed in the columns underneath.

Tip: You can replace a variable used in the map without changing the links of the map. For more information, see [Replacing a Variable used in a Map](#).

**Parent topic:** [Poll Message activity](#)

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## Publish Message activity

---

The Publish Message activity is an executable activity that allows you to publish data on the configured topic. This activity supports the ATLEAST ONCE and ATMOST ONCE delivery semantics.

### About this task

---

This orchestration must already have a JMS endpoint representing the data source, otherwise, input mapping is disabled.

- [Adding a JMS activity to an orchestration](#)
- [Changing the Activity Name](#)
- [Picking a JMS endpoint](#)
- [Configuring the Publish Message activity](#)
- [Mapping the Inputs](#)

Inputs represent data that is transmitted from the orchestration (variables) to the JMS endpoint (parameters).

**Parent topic:** [JMS Activities](#)

**Related tasks:**

[Creating or editing a JMS endpoint](#)

[Get Message activity](#)

[Poll Message activity](#)

[Send Message activity](#)

[Subscribe Message activity](#)

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## Adding a JMS activity to an orchestration

---

### Procedure

---

1. In an active project, open the Activities tab and expand the JMS folder contents.

2. Drag the Publish Message activity icon to the orchestration.
3. When the activity is displayed, the Publish Message Checklist is displayed underneath.

**Parent topic:** [Publish Message activity](#)

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## Changing the Activity Name

---

### Procedure

1. In the Checklist, click Summary.
2. Review the contents of the Activity Name field and make any required changes.

**Parent topic:** [Publish Message activity](#)

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## Picking a JMS endpoint

---

### Procedure

1. In the Checklist, click Pick Endpoint.
2. Click Browse and use the Project Explorer dialog box to select the relevant JMS endpoint.  
*Tip:* You can create the needed endpoint at this time by clicking New.
3. When you click OK, the endpoint-specific configuration options are displayed in a read-only state.  
*Note:* If changes are required to the selected endpoint configuration, click Edit to activate the options. Any changes you make globally affects all uses of the endpoint in active orchestrations.

**Parent topic:** [Publish Message activity](#)

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## Configuring the Publish Message activity

---

### Procedure

1. In the Checklist, click Configure.
2. In the Topic field, specify a provider-specific name that identifies a topic to the JMS system.
3. Open the Message Data menu and choose the format the message takes, whether Byte or Text.
4. In the Reply To field, specify the name of the destination receiving the reply message.
5. In the Time to Live field, specify the time in seconds until the message expires (0 sets a no-expiry state).
6. In the Priority field, select a number that represents the message priority (0-4: lower priorities, 5-9: higher priorities).
7. In the Checklist, click Delivery Rules.
8. Click the Batch Objects checkbox to enable the activity to batch-process multiple messages.
9. Open the Deliver menu and choose either option: ATLEAST\_ONCE or ATMOST\_ONCE
10. In the Checklist, click Retry.
11. Review the default settings and make any required changes.

For more information, see [Specifying retry parameters for JMS activities](#)

**Parent topic:** [Publish Message activity](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/JMS\\_Publish\\_Configuring\\_Publish\\_Message\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/JMS_Publish_Configuring_Publish_Message_Activity.html)

## Mapping the Inputs

---

Inputs represent data that is transmitted from the orchestration (variables) to the JMS endpoint (parameters).

### Before you begin

---

If required, you can create a custom mapping variable in Source or Destination column by following the steps in [Creating variables](#).

### Procedure

---

1. In the Checklist, click Map Inputs. A set of options is displayed, and the To Activity list shows the JMS variables.
  2. Click Select Inputs.
- The Select Inputs dialog box lists all the variables.
3. Choose a variable, then click OK.
  4. To link the activities, click and drag a variable from the From Orchestration list onto a parameter listed in the To Activity list.

If the link is viable, a line is displayed, linking the two.

5. Repeat this procedure to link other orchestration variables to JMS parameters.
6. To test the input links, click the Test button.

The Input Test Files table lists all linked variables/parameters.

7. In the Location column, click the small blue button.
  8. Use the Browse dialog box to select an input test file.
  9. Click Run Test. Test results are displayed in the columns underneath.
- Tip: You can replace a variable used in the map without changing the links of the map. For more information, see [Replacing a Variable used in a Map](#).

**Parent topic:** [Publish Message activity](#)

---

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## Send Message activity

---

The Send Message activity is an executable activity that sends message to the configured queue. The Send Message activity supports the AT LEAST and AT MOST ONCE delivery semantics. Request-reply use cases can use the Poll Message and Send Message activity; there is no separate activity for reply.

### About this task

---

This orchestration must already have a JMS endpoint representing the data source, otherwise, input mapping is disabled.

- [Adding a JMS activity to an orchestration](#)
- [Changing the Activity Name](#)
- [Picking a JMS endpoint](#)
- [Configuring the Send Message activity](#)
- [Mapping the Inputs](#)

Inputs represent data that is transmitted from the orchestration (variables) to the JMS endpoint (parameters).

**Parent topic:** [JMS Activities](#)

**Related tasks:**

[Creating or editing a JMS endpoint](#)

[Get Message activity](#)

[Poll Message activity](#)

[Publish Message activity](#)

[Subscribe Message activity](#)

---

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## Adding a JMS activity to an orchestration

---

### Procedure

---

1. In an active project, open the Activities tab and expand the JMS folder contents.
2. Drag the Send Message activity icon to the orchestration.
3. When the activity is displayed, the Send Message Checklist is displayed underneath.

**Parent topic:** [Send Message activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/JMS\\_Send\\_Add\\_an\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/JMS_Send_Add_an_Activity.html)

## Changing the Activity Name

---

## Procedure

---

1. In the Checklist, click Summary.
2. Review the contents of the Activity Name field and make any required changes.

**Parent topic:** [Send Message activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/JMS\\_Send\\_Changing\\_Activity\\_Name.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/JMS_Send_Changing_Activity_Name.html)

## Picking a JMS endpoint

---

### Procedure

---

1. In the Checklist, click Pick Endpoint.
2. Click Browse and use the Project Explorer dialog box to select the relevant JMS endpoint.  
**Tip:** You can create the needed endpoint at this time by clicking New.
3. When you click OK, the endpoint-specific configuration options are displayed in a read-only state.  
**Note:** If changes are required to the selected endpoint configuration, click Edit to activate the options. Any changes you make globally affects all uses of the endpoint in active orchestrations.

**Parent topic:** [Send Message activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/JMS\\_Send\\_Picking\\_JMS\\_Endpoint.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/JMS_Send_Picking_JMS_Endpoint.html)

## Configuring the Send Message activity

---

### Procedure

---

1. In the Checklist, click Configure.
2. In the Queue field, specify a provider-specific name of the queue to be sent.
3. Open the Message Data menu and choose the format the message takes, whether Bytes or Text.
4. In the Reply To field, specify the name of the destination receiving the reply message.
5. In the Time to Live field, specify the time in seconds until the message expires (0 sets a no-expiry state).
6. In the Priority field, select a number that represents the message priority (0-4: lower priorities, 5-9: higher priorities).
7. In the Checklist, click Delivery Rules.
8. Click the Batch Objects checkbox to enable the activity to batch-process multiple messages.
9. Open the Deliver menu and choose either option: ATLEAST\_ONCE or ATMOST\_ONCE
10. In the Checklist, click Retry.
11. Review the default settings and make any required changes.

For more information, see [Specifying retry parameters for JMS activities](#)

**Parent topic:** [Send Message activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/JMS\\_Send\\_Configuring\\_Send\\_Message\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/JMS_Send_Configuring_Send_Message_Activity.html)

## Mapping the Inputs

---

Inputs represent data that is transmitted from the orchestration (variables) to the JMS endpoint (parameters).

### Before you begin

---

If required, you can create a custom mapping variable in Source or Destination column by following the steps in [Creating variables](#).

### Procedure

---

1. In the Checklist, click Map Inputs. A set of options is displayed, and the To Activity list shows the JMS variables.
2. Click Select Inputs.

The Select Inputs dialog box lists all the variables.

3. Choose a variable, then click OK.
4. To link the activities, click and drag a variable from the From Orchestration list onto a parameter listed in the To Activity list.  
If the link is viable, a line is displayed, linking the two.
5. Repeat this procedure to link other orchestration variables to JMS parameters.
6. To test the input links, click the Test button.

The Input Test Files table lists all linked variables/parameters.

7. In the Location column, click the small blue button.
8. Use the Browse dialog box to select an input test file.
9. Click Run Test. Test results are displayed in the columns underneath.

Tip: You can replace a variable used in the map without changing the links of the map. For more information, see [Replacing a Variable used in a Map](#).

**Parent topic:** [Send Message activity](#)

---

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## Subscribe Message activity

---

The Subscribe Message activity is a starter activity that allows you to subscribe to a JMS topic. This activity supports the ATLEAST ONCE and EXACTLY ONCE delivery semantics.

### About this task

---

This orchestration must already have a JMS endpoint representing the data source, otherwise, output mapping is disabled.

- [Adding a JMS activity to an orchestration](#)
- [Changing the Activity Name](#)
- [Picking a JMS endpoint](#)
- [Configuring the Subscribe Message activity](#)

- [Mapping the Outputs](#)

Outputs represent data that is transmitted from the JMS activity (parameters) to the orchestration (variables).

**Parent topic:** [JMS Activities](#)

**Related tasks:**

[Creating or editing a JMS endpoint](#)  
[Get Message activity](#)  
[Poll Message activity](#)  
[Publish Message activity](#)  
[Send Message activity](#)

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## Adding a JMS activity to an orchestration

---

### Procedure

1. In an active project, open the Activities tab and expand the JMS folder contents.
2. Drag the Subscribe Message activity icon to the orchestration.
3. When the activity is displayed, the Subscribe Message Checklist is displayed underneath.

**Parent topic:** [Subscribe Message activity](#)

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## Changing the Activity Name

---

### Procedure

1. In the Checklist, click Summary.
2. Review the contents of the Activity Name field and make any required changes.

**Parent topic:** [Subscribe Message activity](#)

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## Picking a JMS endpoint

---

## Procedure

---

1. In the Checklist, click Pick Endpoint.
2. Click Browse and use the Project Explorer dialog box to select the relevant JMS endpoint.  
Tip: You can create the needed endpoint at this time by clicking New.
3. When you click OK, the endpoint-specific configuration options are displayed in a read-only state.  
Note: If changes are required to the selected endpoint configuration, click Edit to activate the options. Any changes you make globally affects all uses of the endpoint in active orchestrations.

**Parent topic:** [Subscribe Message activity](#)

---

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## Configuring the Subscribe Message activity

---

### Procedure

---

1. In the Checklist, click Configure.
2. In the Topic field, specify a provider-specific name that identifies a topic to the JMS system.
3. Open the Message Data menu and choose the format the message takes, whether Bytes or Text.
4. In the Message Selector field, enter the text of a message header.

Using a JMS message selector a client can specify, by submitting the text of a message header, those messages it is interested in. Only messages whose headers and properties match the selector are delivered. Message selectors cannot reference message body values. The message selector string must follow JMS selector syntax.

5. In the Client ID field, specify the unique client identifier assigned to this JMS connection.  
A client's identifier is configured in a client-specific ConnectionFactory and transparently assigned to the connection it creates. Alternatively, a client can set a connection's client identifier using a provider-specific value.
6. In the Checklist, click Delivery Rules.
7. Open the Deliver menu and choose either option: ATLEAST\_ONCE, ATMOST\_ONCE or EXACTLY\_ONCE
8. In the Checklist, click Retry.
9. Review the default settings and make any required changes.

For more information, see [Specifying retry parameters for JMS activities](#)

**Parent topic:** [Subscribe Message activity](#)

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## Mapping the Outputs

---

Outputs represent data that is transmitted from the JMS activity (parameters) to the orchestration (variables).

## Before you begin

---

If required, you can create a custom mapping variable in the Source or Destination column by following the steps in [Creating variables](#)

## Procedure

---

1. In the Checklist, click Map Outputs.
2. Review the parameters listed in the From Activity list.
3. If you want to create new orchestration variables that match the output parameters of the current activity, select a parameter and then click Copy.
4. In the Copy Parameters dialog box, choose one or more parameters, then click OK to add them to the To Orchestration list. The data type, schema, or schema fragment of the selected output parameter is applied to the new variable.
5. Click Select Inputs.

The Select Inputs dialog box lists all the variables associated with the other endpoint.

6. Choose one or more variables, then click OK to add them to this list.
7. Drag a parameter from the From Activity list onto a variable listed in the To Orchestration list.

If the link is viable, a line is displayed, linking the two.

8. Repeat this procedure to link other parameters and variables.
9. To test the output links, click the Test button. A variable is listed in an Input Test Files table.
10. In the Location column, click the small blue button.
11. Use the Browse dialog box to select an input test file.
12. Click Run Test. Test results are displayed in the columns underneath.

Tip: You can replace a variable used in the map without changing the links of the map. For more information, see [Replacing a Variable used in a Map](#).

**Parent topic:** [Subscribe Message activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/JMS\\_Subscribe\\_Mapping\\_Outputs.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/JMS_Subscribe_Mapping_Outputs.html)

## Creating a JMS endpoint to a WebLogic server

---

You can define a JMS endpoint to an existing WebLogic server, by completing the following steps in IBM Cast Iron Studio.

## Before you begin

---

Install the following JAR files in IBM Cast Iron Studio and the Integration Appliance run time:

- wlclient.jar
- wljmsclient.jar

## Procedure

---

1. In Studio, drag an activity from the JMS folder of the Activities tab onto the orchestration.
2. Click Pick Endpoint from the Checklist. The Pick Endpoint panel opens.
3. To create an endpoint, click New. The Create Endpoint window opens.
4. In the Create Endpoint window, specify the following connection parameters.

Connection parameter fields	Description
JNDI Initial Factory	Specify the context factory class that Studio retrieves from JNDI: weblogic.jndi.WLInitialContextFactory

	This JNDI factory class is configured during the JMS WebLogic server installation
Provider URL	Specify the URL of the JMS server in the following format: t3://:7001 Where 7001 is the default port.
Provider Package	Optionally, you can specify a provider package name.
Factory Name	Use one of the supplied default factories that is configured with the WebLogic endpoint system: <code>weblogic.examples.jms.QueueConnectionFactory</code>

5. To validate the parameters you specified, click Test Connection.

Note: When you configure an endpoint by using configuration properties, verify that the configuration properties have valid values. If the configuration property value is invalid or does not exist, the connection test fails.

6. In the Checklist, click Configure.

7. In the Topic field, select the following topic from the Preconfigured or custom Topic/Queues list:

`weblogic.examples.jms.exampleQueue`

This topic is preconfigured to use a JMS WebLogic server.

8. Open the Message Data menu and choose the format the message takes, whether Bytes or Text.

9. In the Message Selector field, you can enter the text of a message header.

By submitting the text of a message header in a JMS message selector, a client can specify the messages it is interested in. Only messages with headers and properties that match the selector are delivered. Message selectors cannot reference message body values. The message selector string must comply with the JMS selector syntax.

Note: Message selector can be blank

10. In the Client ID field, specify the unique client identifier assigned to this JMS connection.

11. In the Checklist, click Delivery Rules.

12. Open the Deliver menu and choose the option: ATMOST\_ONCE

13. In the Checklist, click Retry.

14. If there are any problems, review the default settings and make the required changes.

**Parent topic:** [JMS Activities](#)

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## LDAP Connector Activities

- [Overview of the Lightweight Directory Access Protocol \(LDAP\) connector](#)
- [Creating or Editing Endpoint for LDAP connector](#)
- [Creating LDAP Entry Activity](#)
- [Delete LDAP Entry Activity](#)
- [Retrieve LDAP Entry Activity](#)
- [Search LDAP Entry Activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_LDAP.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_LDAP.html)

# Overview of the Lightweight Directory Access Protocol (LDAP) connector

The LDAP connector enables a two-way communication between Cast Iron® and LDAP Servers . LDAP Server comprises of LDAP entries such as a user, systems, network, services etc., allowing sharing of information over internet. LDAP connector provides bidirectional connectivity to work with LDAP Entries present in LDAP Server.

You can perform the following activities using the LDAP connector:

## Outbound Activities :

1. Create Entry
2. Retrieve Entry
3. Search Entry
4. Delete Entry

**Parent topic:** [LDAP Connector Activities](#)

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## Creating or Editing Endpoint for LDAP connector

Endpoints provide the configuration information that Studio and the Integration Appliance use to connect to a LDAP server.

### Selecting or editing a LDAP endpoint:

1. In the Create Endpoint or Edit Endpoint pane, configure the LDAP server as described in the following table.  
In addition to these fields, the endpoint pane contains Connection pool options and Remote Endpoint Configuration.  
Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.
2. Click Test Connection to confirm that the connection details are valid and you are able to connect to the LDAP server successfully.
3. Click OK.

LDAP Network Parameters	Description
Host	Specifies the host name or IP address of the machine on which LDAP server is running.
Port	Specifies the LDAP Sever port. The default value is 389.
Protocol version	LDAP Protocol version, LDAP Connector supports only Protocol v3
Base Dn	Point from where connector (LDAP browser) display LDAP tree (Directory Information Tree)
Authentication Parameters	Description
Authentication Type	Anonymous and Simple. User have to specify username and password for simple authentication.
Bind Dn or User	An Active Directory user account that has privileges to search/modify Directory tree.
Password	Specifies the Bind password associated with the user name to connect to the LDAP server.
Connection Pool options	Description
Minimum Connections	Specifies the lowest number of LADP server connections that the Integration Appliance keeps open in the connection pool. Entering 0 (zero) is supported. The

	default value is 5.
Maximum Connections	Specifies the maximum number of LDAP server connections that the Integration Appliance can keep open in the connection pool. Entering 0 (zero) means the maximum number of connections is unbounded. The default value is 25.
Maximum Idle Time	Specifies the amount of time in minutes that a LDAP server connection can be open in an idle state before being closed by the Integration Appliance. Entering 0 (zero) means that the connections are closed when they are returned to the pool â€“no idle time. The default value is 120 minutes.
Maximum Wait	Specifies the amount of time in seconds that the Integration Appliance waits for a connection when all the connections in the pool are exhausted. If no connection is obtained after the wait time, an exception is thrown. The default value is 300 seconds.
Reclaim Connections	Specifies the interval at which the connector checks for idle connections. Idle connections are reclaimed until the minimum number of connections is reached, as specified in the Minimum Connections parameter. The default value is 5 minutes.
<b>Remote Endpoint Configurations</b>	<b>Description</b>
Endpoint Runs Behind Firewall	Enables the secure connector name property so that secure connector can be used if the LDAP server is running behind a firewall.
Secure Connector Name	Specifies the maximum number of LDAP server connections that the Integration Appliance can keep open in the connection pool. Entering 0 (zero) means the maximum number of connections is unbounded. The default value is 25.

**Parent topic:** [LDAP Connector Activities](#)

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## Creating LDAP Entry Activity

---

Use create activity to create entry or entries on LDAP Server. A LDAP Entry consist of set of attributes which defines the Entry.

Using the create activity:

1. Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.
2. Select the Activities tab and expand the LDAP folder.
3. Drag Create Entry activity from the LDAP folder onto the orchestration. The graphical representation of the orchestration, including the checklist is displayed.
4. The Checklist pane lists the tasks (Summary, Pick Endpoint, Configure, Map inputs, Map outputs) that you must complete to configure the activity.

- a. Click on Pick Endpoint to select an LDAP endpoint.

Note: For instructions on creating or editing a LDAP endpoint, see [Creating or Editing Endpoint for LDAP connector](#).

- b. Click Configure from the Checklist. The Configure pane is displayed. Complete the following steps to configure Create Entry activity:

- i. Click Browse button to select an Base-Dn from the Browse DIT pane. The Browse LDAP Entry panel displays all the entries from the selected LDAP server.

Note: If you have configured the Base-Dn property in the endpoint panel then Browse LDAP Entry displays children of Base-Dn alone or else it displays all the entries from the root of the LDAP directory.

- ii. Click Browse button to select an Object class(es) from the Browse LDAP Object Class pane. The Browse LDAP Object Class panel displays all the Object Classes on the selected LDAP Server. LDAP object class(es) defines the attributes of an Entry. An Entry object can have superset of attributes from 2 or more object classes. Select all the object classes which will collectively represent all attributes of the Entry you are going to create.

## Specifying the map inputs for create activity

---

Click Map Input from the Checklist pane. The input parameters for the specific LDAP activity are displayed under the To Activity pane. Note: Whole request object is an array type which allow users to create multiple entries by using same request and the additionalAttributes section by providing the Attribute names, its type and attribute values.

Table 1. Map Input Optional Parameter

Parameter Name	Description
baseDn	Point under which new entry to be created
RDN	Relative Distinguished Names(RDN). RDN of an object is the part of the name that is an attribute of the object itself (the part of the object name that identifies this object as unique from its siblings at its current level in the naming hierarchy)
objectClasses	To specify additional object classes and its attribute(s) which are not part of the map inputs structure during runtime, use ObjectClasses element to provide the Object class name(s). The element objectClasses is an array type so that you can specify multiple values.
entryAttributes	LDAP Entry Attributes type provides structured content type to create an Entry in the LDAP server. The Entry Attributes element type is created from the set of attributes derived using Object Class(es) specified in the configure panel
additionalAttributes	Additional Attributes type can be used when user wants to specify additional set attributes and their values outside the selected object classes during runtime. The element <b>additionalAttributes</b> is an array type so that user can specify multiple additional attributes. The element <b>additionalAttributes</b> is a complex type element through which user can specify attribute name, its type and values (values itself an array type allowing user to specify set of values for the given attribute)

## Specifying the map outputs create activity

---

Click Map output from the Checklist pane. The output parameters for the LDAP Create activity are displayed under the From Activity pane. Some of the common output parameters are defined in the following table

Table 2. Create Activity common output parameters

Parameter Name	Description
baseDn	Return Base Dn if successful
RDN	Return RDN if successful
resultCode	LDAP Result code
resultMessage	LDAP Result Message

Note: You can create multiple Entries using create entry activity.

**Parent topic:** [LDAP Connector Activities](#)

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## Delete LDAP Entry Activity

---

Use the Delete Activity to delete LDAP entries from the configured LDAP Sever.

Using the create activity:

1. Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.

2. Select the Activities tab and expand the LDAP folder.
3. Drag Delete Entry activity from the LDAP folder onto the orchestration. The graphical representation of the orchestration, including the checklist is displayed.
4. The Checklist pane lists the tasks (Summary, Pick Endpoint, Configure, Map inputs, Map outputs) that you must complete to configure the outbound activity.
  - a. Click on Pick Endpoint to select a LDAP endpoint.  
Note: For instructions on creating or editing a LDAP endpoint, see [Creating or Editing Endpoint for LDAP connector](#).
  - b. Click Configure from the Checklist. The Configure pane is displayed. Complete the following steps to configure Delete Entry activity.
    - i. Click Browse button to select an Base Dn from the Browse DIT pane. The Browse LDAP Entry panel displays all the entries from the selected LDAP server.  
Note: If you have configured the Base-Dn property in the endpoint panel then Browse LDAP Entry displays children of Base-Dn alone or else it displays all the entries from the root of the LDAP directory.

## **Specifying the map inputs for delete activity**

---

Click Map Input from the Checklist pane. The input parameters for the specific LDAP activity are displayed under the To Activity pane. Some of the common input parameters are defined in the following table.

**Table 1. Map Input Optional Parameter**

Parameter Name	Description
baseDn	Starting point of an LDAP tree under which connector searches for Entry matching to RDN mentioned by below field.
RDN	An attribute name value pair which uniquely identifies an Entry under immediate tree represented by Base Dn.

## **Specifying the map outputs delete activity**

---

Click Map output from the Checklist pane. The output parameters for the LDAP Delete activity are displayed under the From Activity pane. Some of the common output parameters are defined in the following table

**Table 2. Delete Activity common output parameters**

Parameter Name	Description
baseDn	Return Base Dn if successful
RDN	Return RDN if successful
resultCode	LDAP Result code
resultMessage	LDAP Result Message

Note : We can delete multiple Entries using delete entry activity

**Parent topic:** [LDAP Connector Activities](#)

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## **Retrieve LDAP Entry Activity**

---

Using the Retrieve Activity, you can retrieve an entry from a LDAP Server. The retrieved entry is uniquely identified by its Dn.

1. Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.
2. Select the Activities tab and expand the LDAP folder.

3. Drag Retrieve Entry activity from the LDAP folder onto the orchestration. The graphical representation of the orchestration, including the checklist is displayed.
4. The Checklist pane lists the tasks (Summary, Pick Endpoint, Configure, Map inputs, Map outputs) that you must complete to configure the outbound activity.
  - a. Click on Pick Endpoint to select a LDAP endpoint.  
Note: For instructions on creating or editing a LDAP endpoint, see [Creating or Editing Endpoint for LDAP connector](#).
  - b. Click Configure from the Checklist. The Configure pane is displayed.
    - i. Click Browse button to select an Base Dn from the Browse DIT pane. The Browse LDAP Entry panel displays all the entries from the selected LDAP server.  
Note: If you have configured the Base-Dn property in the endpoint panel then Browse LDAP Entry displays children of Base-Dn alone or else it displays all the entries from the root of the LDAP directory.
    - ii. Click Browse button to select an Object class(es) from the Browse LDAP Object Class pane. The Browse LDAP Object Class displays all the Object Classes on the selected endpoint.

## **Specifying the map inputs for retrieve activity**

---

Click Map Input from the Checklist pane. The input parameters for the specific LDAP activity are displayed under the To Activity pane.

**Table 1. Map Input Optional Parameter**

Parameter Name	Description
baseDn	Starting point of LDAP search
RDN	The Entry to be searched, input must be name value pair

## **Specifying the map outputs retrieve activity**

---

Click Map output from the Checklist pane. The output parameters for the LDAP Retrieve activity are displayed under the From Activity pane. Some of the common output parameters are defined in the following table:

**Table 2. Retrieve Activity common output parameters**

Parameter Name	Description
baseDn	The container Dn under which entry represented by RDN is created
RDN	Relative Distinguished Names(RDN). RDN of an object is the part of the name that is an attribute of the object itself (the part of the object name that identifies this object as unique from its siblings at its current level in the naming hierarchy)
objectClasses	Field contains structured content containing all attributes of the object classes selected in configure panel
entryAttributes	Field contains structured content containing all attributes of the object classes selected in configure panel
additionalAttributes	additionalAttributes field contains additional set attributes of the entry which cannot be represented by selected object classes (entryAttributes). Means, if the entry contains an attribute or set of attributes which are not in the entryAttribute field then those attribute(s) will be added to additionalAttributes. The field additionalAttributes is a complex type field which can contain attribute name, its type and values. (The value field is an array in turn to support multiple value for an attribute)

**Parent topic:** [LDAP Connector Activities](#)

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## Search LDAP Entry Activity

---

Search activity is used to search entries in LDAP Server that matches the values that are specified in the search criteria.

You can specify or configure the following search criteria in the configuration panel or input data that is sent with the outbound request.

### 1. Search Scope:

The Scope is the starting point of an LDAP search and the depth from the base DN to which the search should occur. There are three options (values) that can be assigned to the SCOPE parameter:

- Only Object:** This value is used to indicate searching only the entry at the base DN, resulting in only that entry being returned (keeping in mind that it also has to meet the search filter criteria.)
- Immediate Child:** This value is used to indicate searching all entries one level under the base DN - but not including the base DN and not including any entries under that one level under the base DN.
- Complete Sub tree:** This value is used to indicate searching of all entries at all levels under and including the specified base DN.

### 2. Search filter:

Search filters select the entries to be returned for a search operation. They are most commonly used with the LDAP search command-line utility and you can place multiple search filters.

## Using the Search Entry activity

---

- Right-click Orchestration in the Project pane and click New Orchestration to create or open an orchestration. The orchestration pane is displayed.
- Select the Activities tab and expand the LDAP folder.
- Drag Search Entry activity from the LDAP folder onto the orchestration. The graphical representation of the orchestration, including the checklist is displayed.
- The Checklist pane lists the tasks (Summary, Pick Endpoint, Configure, Map inputs, Map outputs) that you must complete to configure the outbound activity.
  - Click on Pick Endpoint to select a LDAP endpoint.  
Note: For instructions on creating or editing a LDAP endpoint, see [Creating or Editing Endpoint for LDAP connector](#).
  - Click Configure from the Checklist. The Configure pane is displayed.
    - Click Browse button to select an Base Dn from the Browse DIT pane. The Browse DIT panel displays all the entries from the selected LDAP server.  
Note: If you have configured the Base-Dn property in the endpoint panel then Browse LDAP Entry displays children of Base-Dn alone or else it displays all the entries from the root of the LDAP directory.
    - Click Browse button to select an Object class(es) from the Browse LDAP Object Class pane. The Browse LDAP Object Class displays all the Object Classes on the selected endpoint.
  - Select the scope of Search.
  - Input the LDAP filter to search and filter the result.

## Specifying the map inputs for search entry activity

---

Click Map Input from the Checklist pane. The input parameters for the specific LDAP activity are displayed under the To Activity pane.

Table 1. Map Input Optional Parameter

Parameter Name	Description
baseDn	Starting point of LDAP search
RDN	Relative DN
Search Scope	The Scope is the starting point of an LDAP search and the depth from the base DN to which the search should occur
Search Filter	Search filters select the entries to be returned for a search operation.

Note: Value provided in map will take highest priority.

## Specifying the map outputs search entry activity

Click Map output from the Checklist pane. The output parameters for the LDAP Search entry activity are displayed under the From Activity pane. Some of the common output parameters are defined in the following table:

Table 2. Retrieve Activity common output parameters

Parameter Name	Description
baseDn	The container Dn under which entry represented by RDN is created.
RDN	Relative Distinguished Names(RDN). RDN of an object is the part of the name that is an attribute of the object itself (the part of the object name that identifies this object as unique from its siblings at its current level in the naming hierarchy)
objectClasses	Lists all object classes of the search entry
entryAttributes	Field contains structured content containing all attributes of the object classes selected in configure panel.
additionalAttributes	additionalAttributes field contains additional set attributes of the entry which cannot be represented by selected object classes (entryAttributes). Means, if the entry contains an attribute or set of attributes which are not in the entryAttribute field then those attribute(s) will be added to additionalAttributes. The field additionalAttributes is a complex type field which can contain attribute name, its type and values. (The value field is an array in turn to support multiple value for an attribute)

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## MailChimp Activities

- [Overview of MailChimp Connector](#)
- [Creating or editing an endpoint for MailChimp](#)

Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to MailChimp platform. MailChimp connector supports both Basic authentication and OAuth2.0 authentication mechanism so as to authorize users to perform operations.
- [Using the MailChimp Create Objects Activity](#)

Use the Create Objects activity to create objects in MailChimp. Refer to the Objects supported by MailChimp Connector.
- [Using the MailChimp Update Objects Activity](#)

Use the Update Objects activity to update objects in MailChimp. Refer to the Objects supported by MailChimp Connector.
- [Using the MailChimp Delete Objects Activity](#)

Use the Delete Objects activity to delete objects from MailChimp. Refer to the Objects supported by MailChimp Connector.
- [Using the MailChimp Retrieve Objects Activity](#)

Use the Update Objects activity to update objects in MailChimp. Refer to the Objects supported by MailChimp Connector.
- [Using the MailChimp Retrieve All Objects Activity](#)

Use the Retrieve All Objects activity to retrieve objects in MailChimp. Refer to the Objects supported by MailChimp Connector.
- [Using the MailChimp Search Objects Activity](#)

Use the Search Objects activity to search objects in MailChimp. Refer to the Objects supported by MailChimp Connector.
- [Using the MailChimp Upsert Members Activity](#)

Use the Upsert Members activity to create or update Member in MailChimp.
- [Using the MailChimp Retrieve Reports Activity](#)

Use the Retrieve Reports activity to retrieve Click Report, Members Click Report, Email Activity Report, Campaign Recipient Report, Unsubscribed Member report from MailChimp.
- [Using the MailChimp Retrieve All Reports Activity](#)

Use the Retrieve All Objects activity to retrieve Campaign Feedback Report, Click Report, Click Reports, Domain Performance Report, Social Activity Report, Email Activity Report, Location Report, Recipients Report, Campaign Sub Report, and Unsubscribed Member Report from MailChimp.

- [Using the MailChimp Send Campaigns Activity](#)  
Use the Send Campaigns activity to Send a MailChimp campaign.
- [Using the MailChimp Cancel Campaigns Activity](#)  
Use the Cancel Campaigns activity to Cancel a Regular or Plain-Text Campaign after you send, before all of your recipients receive it. This feature is included with MailChimp Pro.
- [Using the MailChimp Batch Create Objects Activity](#)  
Use the Batch Create Objects activity to create objects in MailChimp asynchronously. Refer to the Objects supported by MailChimp Connector.
- [Using the MailChimp Batch Update Objects Activity](#)  
Use the Batch Update Objects activity to update objects in MailChimp asynchronously. Refer to the Objects supported by MailChimp Connector.
- [Using the MailChimp Batch Upsert Objects Activity](#)  
Use the Batch Upsert Objects activity to create or update Member objects in MailChimp.
- [Using the MailChimp Batch Retrieve Objects Activity](#)  
Use the Batch Retrieve Objects activity to retrieve objects in MailChimp asynchronously. Refer Objects Supported by the MailChimp Connector.
- [Using the MailChimp Get Batch Status Activity](#)  
Use the Get Batch Status activity to get summary of batch requests that have been made in MailChimp.
- [Using the MailChimp Get Batch Results Activity](#)  
Use the Get Batch Results activity to read Batch responses from MailChimp. There is no MailChimp API available. However this activity simplifies the user's complexity to parse the batch response. It reads archived gzipped response file and populates the result in Map Outputs. For supported Objects, refer Objects Supported by the MailChimp Connector.
- [Specifying the Retry options for MailChimp REST API activities](#)  
Specifying the Retry parameters is one of the tasks to configure a MailChimp activity. The MailChimp REST API connector uses a single login session for all connections to the MailChimp REST API endpoint. If a session expires, the connector automatically establishes a new session. The connector does not count the initial attempt to reacquiring the session as a retry attempt. The connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails. The retrial exceptions include 503 and 504 for this error codes.

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## Overview of MailChimp Connector

MailChimp is an Email Service Provider (ESP), which helps marketers to send bulk emails to clients, customers, and other interested parties. It helps businesses with their marketing emails and newsletters, automated messages, and targeted campaigns. It also manages their subscriber lists, tracks campaign performances.

MailChimp is a web-based application that works in most web browsers. There is no need to download or install software locally.

MailChimp connector interacts using restful Web Service API's, which allow users to access bi-directional data-level integration.

You can perform the following activities using MailChimp connector:

- Outbound activities:
  - Create Objects
  - Update Objects
  - Delete Objects
  - Retrieve Objects
  - Retrieve All Objects
  - Search Objects
  - Upsert Members
  - Retrieve Reports
  - Retrieve All Reports
  - Send Campaigns
  - Cancel Campaigns

- o Batch Create Objects
- o Batch Update Objects
- o Batch Upsert Objects
- o Batch Retrieve Objects
- o Get Batch Status
- o Get Batch Results

The MailChimp API version currently supported by this connector is 3.0.

**Parent topic:** [MailChimp Activities](#)

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## Creating or editing an endpoint for MailChimp

Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to MailChimp platform. MailChimp connector supports both Basic authentication and OAuth2.0 authentication mechanism so as to authorize users to perform operations.

### Selecting or editing a MailChimp endpoint

1. In the Create Endpoint or Edit Endpoint pane, configure the MailChimp endpoint as described in the following table.  
Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.
2. Click Test Connection to confirm that the connection details are valid and you are able to connect to MailChimp successfully.
3. Click OK.

Note:

- If radio button Log into server with Basic Authentication is clicked, User Name and API key are required.
- If radio button Log into server with OAuth2.0 Authentication is clicked, OAuth2.0 Access Token is required.

Table 1. Connection properties

Field Name	Description
API Version	MailChimp API Version
User Name	Authentication user name for accessing MailChimp instance.
API Key	Authentication API Key for accessing MailChimp instance
OAuth 2.0 Access Token	Access Token for accessing MailChimp instance.

Following parameters are required in endpoint test connection screen to make connection via Proxy:

Field Name	Description
Host name	Host Name of Proxy Network
Port	Port Number of Proxy Network
User Name	User Name for accessing service via proxy network
Password	Password for accessing service via proxy network

Note: In the Map Input section of each activity, relevant fields of endpoint panel are available to override at runtime. User can provide data to various groups of parameters like Proxy Details, Connection Details to override. Authentication type used will be as per the selection made by user on endpoint panel. Only parameters needed for selected type can be overridden. Providing only partial

parameter values in a selected group is not allowed. For example, if Basic authentication is selected in endpoint panel, API Key and username must be overridden, else access Token is overridden.

## Objects Supported by the MailChimp Connector

Following objects are supported by the MailChimp Connector:

Table 2. CRUD Operations supported by the MailChimp objects

MailChimp Objects	Create	Retrieve All	Retrieve	Update	Delete	Search
Campaign	Yes	Yes	Yes	Yes	Yes	Yes
Feedback	Yes	Yes	Yes	Yes	Yes	
Campaign Content			Yes	Yes		
Campaign Send Checklist			Yes			
Conversation		Yes	Yes			Yes
Message	Yes	Yes	Yes			Yes
File	Yes	Yes	Yes	Yes	Yes	Yes
Folder	Yes	Yes	Yes	Yes	Yes	Yes
List	Yes	Yes	Yes	Yes	Yes	Yes
List Abuse Report		Yes	Yes			
Template Default Content			Yes			
List Activity		Yes				
Client		Yes				
Growth History		Yes	Yes			
Interests Category	Yes	Yes	Yes	Yes	Yes	Yes
Interest		Yes	Yes	Yes	Yes	
Member	Yes	Yes	Yes	Yes	Yes	Yes
Member activity		Yes				
Member goal		Yes				
Member Note	Yes	Yes	Yes	Yes	Yes	Yes
Template		Yes	Yes		Yes	Yes
Authorized App		Yes	Yes			
Segment		Yes	Yes		Yes	Yes
Aim Segment	Yes			Yes		
Automation Segment	Yes			Yes		
Campaign Poll Segment	Yes			Yes		
Conversation Segment	Yes			Yes		
Date Segment	Yes			Yes		
Email Client Segment	Yes			Yes		
Language Segment	Yes			Yes		
Mandrill Segment	Yes			Yes		
Member Rating Segment	Yes			Yes		

<b>MailChimp Objects</b>	<b>Create</b>	<b>Retrieve All</b>	<b>Retrieve</b>	<b>Update</b>	<b>Delete</b>	<b>Search</b>
Signup Source Segment	Yes			Yes		
Survey Monkey Segment	Yes			Yes		
VIP Segment	Yes			Yes		
Ecomm Category Segment	Yes			Yes		
Ecomm Number Segment	Yes			Yes		
Ecomm Purchased Segment	Yes			Yes		
Ecomm Spent Segment	Yes			Yes		
Ecomm Store Segment	Yes			Yes		
Goal Activity Segment	Yes			Yes		
Goal Timestamp Segment	Yes			Yes		
Fuzzy Segment	Yes			Yes		
Static Segment	Yes			Yes		
IPGeoCountry State Segment	Yes			Yes		
IPGeoIn Segment	Yes			Yes		
IPGeoInZip Segment	Yes			Yes		
IPGeoInUnknown Segment	Yes			Yes		
IPGeoZip Segment	Yes			Yes		
SocialAge Segment	Yes			Yes		
SocialGender Segment	Yes			Yes		
SocialInfluence Segment	Yes			Yes		
SocialNetworkMember Segment	Yes			Yes		
SocialNetworkFollow Segment	Yes			Yes		
Campaign Folder	Yes	Yes	Yes	Yes	Yes	
Template Folder	Yes	Yes	Yes	Yes	Yes	

Table 3. Batch Operations supported by the MailChimp objects

<b>MailChimp Objects</b>	<b>Create</b>	<b>Retrieve</b>	<b>Update</b>	<b>Upsert</b>	<b>Get Batch Result</b>
Campaign	Yes	Yes	Yes		Yes
Feedback	Yes	Yes	Yes		Yes
Campaign Content		Yes	Yes		Yes
Campaign Send Checklist		Yes			Yes
Conversation		Yes			Yes

<b>MailChimp Objects</b>	<b>Create</b>	<b>Retrieve</b>	<b>Update</b>	<b>Upsert</b>	<b>Get Batch Result</b>
Message	Yes	Yes			Yes
File	Yes	Yes	Yes		Yes
Folder	Yes	Yes	Yes		Yes
List	Yes	Yes	Yes		Yes
List Abuse Report		Yes			Yes
Template Default Content		Yes			Yes
List Activity					Yes
Client					Yes
Growth History		Yes			Yes
Interest Category	Yes	Yes	Yes		Yes
Interest		Yes	Yes		Yes
Member	Yes	Yes	Yes	Yes	Yes
Member activity					Yes
Member goal					Yes
Member Note	Yes	Yes	Yes		Yes
Template		Yes			Yes
Authorized App		Yes			Yes
Segment		Yes			Yes
Aim Segment	Yes		Yes		Yes
Automation Segment	Yes		Yes		Yes
Campaign Poll Segment	Yes		Yes		Yes
Conversation Segment	Yes		Yes		Yes
Date Segment	Yes		Yes		Yes
Email Client Segment	Yes		Yes		Yes
Language Segment	Yes		Yes		Yes
Mandrill Segment	Yes		Yes		Yes
Member Rating Segment	Yes		Yes		Yes
Signup Source Segment	Yes		Yes		Yes
Survey Monkey Segment	Yes		Yes		Yes
VIP Segment	Yes		Yes		Yes
Ecomm Category Segment	Yes		Yes		Yes
Ecomm Number Segment	Yes		Yes		Yes
Ecomm Purchased Segment	Yes		Yes		Yes
Ecomm Spent Segment	Yes		Yes		Yes
Ecomm Store Segment	Yes		Yes		Yes
Goal Activity Segment	Yes		Yes		Yes
Goal Timestamp Segment	Yes		Yes		Yes
Fuzzy Segment	Yes		Yes		Yes

MailChimp Objects	Create	Retrieve	Update	Upsert	Get Batch Result
Static Segment	Yes		Yes		Yes
IPGeoCountry State Segment	Yes		Yes		Yes
IPGeoIn Segment	Yes		Yes		Yes
IPGeolnZip Segment	Yes		Yes		Yes
IPGeolnUnknown Segment	Yes		Yes		Yes
IPGeoZip Segment	Yes		Yes		Yes
SocialAge Segment	Yes		Yes		Yes
SocialGender Segment	Yes		Yes		Yes
SocialInfluence Segment	Yes		Yes		Yes
SocialNetworkMember Segment	Yes		Yes		Yes
SocialNetworkFollow Segment	Yes		Yes		Yes
Campaign Folder	Yes	Yes	Yes		Yes
Template Folder	Yes	Yes	Yes		Yes

#### Atomic Operations:

- Retrieve Reports:
  - Click Report
  - Members Click Report
  - Email Activities Report
  - Recipient Report
  - Unsubscribed Members Report
- Retrieve All Reports:
  - Campaign Feedback Report
  - Click Report
  - Members Click Report
  - Domain Performance Report
  - Social Activity Report
  - Email Activities Report
  - Location Report
  - Recipient Report
  - Campaign Sub Report
  - Unsubscribed Member Report
- Cancel Campaign
- Upsert Members
- Send Campaign
- Get Batch Status

#### Custom objects support

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MailChimp does not support custom objects.

#### Custom fields support

---

MailChimp merge fields are treated as custom fields, which can be created by end user only using MailChimp UI. These fields are associated only with MailChimp â€˜Memberâ€™ object. Also the merge fields are associated with a specific List. Different MailChimp lists can have different merge fields. Custom fields are dynamically discovered on selection of a List.

In the Configure Panel, on selection of â€˜Memberâ€™ object List Name Browse button will be enabled in order to select the list\_id associated with merge fields. On selection of List Name, the merge fields will be populated in Map Inputs/Map Outputs Panel dynamically. List Name Browse Panel shows 50 Lists by default. â€˜Nextâ€™ and â€˜Previousâ€™ button is used to fetch the lists as per â€˜countâ€™ text field.

User has a provision to override the value of "list\_Id" in the Map Input. If two different lists have the same set of merge fields, then specifying either of the list\_id would suffice. However if the list\_id overridden has different merge fields then only the common fields would retain values and others would be ignored. In case there are some mandatory merge fields defined for overridden list\_id and these merge fields are not available for selected list\_id in configure panel, then execution will error out. Users must note this and provide appropriate "list\_Id" based on the merge fields it populated. Also note that if list\_id is provided in Map Input, it has more preference than the one selected in configure panel.

The connector activities of "Member" Object which support merge field for Map Input is provided below:

- Create Objects
- Update Objects
- Batch Create Objects
- Batch Update Objects
- Batch Upsert Objects
- Upsert Members

The connector activities of "Member" object which dynamically populates the merge field at Map Output are provided below:

- Search
- Retrieve All
- Retrieve
- Get Batch Results

Merge fields are associated with list\_id.

**Parent topic:** [MailChimp Activities](#)

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## Using the MailChimp Create Objects Activity

---

Use the Create Objects activity to create objects in MailChimp. Refer to the Objects supported by MailChimp Connector.

### About this task

---

Use this task to create objects in the MailChimp. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the MailChimp folder contents.
2. Drag the Create Objects activity icon onto the orchestration. Select the activity. The MailChimp Create Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MailChimp endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Object Type and List Name available. List Name Browse is enable only for Member Object Type.
11. Click Browse to select the object type. The Browse MailChimp window is displayed.
12. In the Object Type Browse MailChimp window, you can select the MailChimp object types from the object type list. Click OK.
13. If Member Object is selected, List Name Browse is enabled.

14. Click Browse to select a List. The Browse MailChimp window is displayed.
15. In the List Name Browse MailChimp, you can select the MailChimp List Name from the List Name/Id list. Click OK.
16. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MailChimp REST API activities](#).
17. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Create Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
18. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
19. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
20. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MailChimp Create Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the Object Name (For example: Campaign) field in the To Activity pane of Map Inputs, and select Expand Occurrences.

MailChimp also supports custom field value creation. Please refer section about [Custom fields support](#) for more information.

**Parent topic:** [MailChimp Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MailChimp\\_create\\_objects\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MailChimp_create_objects_activity.html)

## Using the MailChimp Update Objects Activity

---

Use the Update Objects activity to update objects in MailChimp. Refer to the Objects supported by MailChimp Connector.

### About this task

---

Use this task to update objects in the MailChimp. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the MailChimp folder contents.
2. Drag the Update Objects activity icon onto the orchestration. Select the activity. The MailChimp Update Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MailChimp endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Object Type and List Name available. List Name Browse is enable only for Member Object Type.
11. Click Browse to select the object type. The Browse MailChimp window is displayed.
12. In the Object Type Browse MailChimp window, you can select the MailChimp object types from the object type list. Click OK.

13. If Member Object is selected, List Name Browse is enabled.
14. Click Browse to select a List. The Browse MailChimp window is displayed.
15. In the List Name Browse MailChimp, you can select the MailChimp List Name from the List Name/Id list. Click OK.
16. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MailChimp REST API activities](#).
17. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Create Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
18. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
19. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
20. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MailChimp Update Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the Object Name (For example: Campaign) field in the To Activity pane of Map Inputs, and select Expand Occurrences.

MailChimp also supports custom field value update. Please refer section about [Custom fields support](#) for more information.

**Parent topic:** [MailChimp Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MailChimp\\_update\\_objects\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MailChimp_update_objects_activity.html)

## Using the MailChimp Delete Objects Activity

---

Use the Delete Objects activity to delete objects from MailChimp. Refer to the Objects supported by MailChimp Connector.

### About this task

---

Use this task to delete objects from MailChimp instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the MailChimp folder contents.
2. Drag the Delete Objects activity icon onto the orchestration. Select the activity. The MailChimp Delete Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MailChimp endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Object Type Browse is available.
11. Click Browse to select the object type. The Browse MailChimp window is displayed.

12. In the Object Type Browse MailChimp window, you can select the MailChimp object types from the object type list. Click OK.
13. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MailChimp REST API activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Create Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MailChimp Delete Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type are supported.

**Parent topic:** [MailChimp Activities](#)

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## Using the MailChimp Retrieve Objects Activity

---

Use the Update Objects activity to update objects in MailChimp. Refer to the Objects supported by MailChimp Connector.

### About this task

---

Use this task to retrieve objects in MailChimp instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the MailChimp folder contents.
2. Drag the Retrieve Objects activity icon onto the orchestration. Select the activity. The MailChimp Retrieve Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MailChimp endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Object Type and List Name available. List Name Browse is enable only for Member Object Type.
11. Click Browse to select an object. The Browse MailChimp window is displayed.
12. In the Object Type Browse MailChimp window, you can select the MailChimp object types from the object type list. Click OK.
13. In the List Name Browse MailChimp, you can select the MailChimp List Object. Click OK.
14. In the Checklist, click Retry. Review the default settings and make the required changes.

15. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Retrieve Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
16. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
17. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
18. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MailChimp Retrieve Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the Object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type are supported.

MailChimp also supports custom field value fetch. Please refer section about [Custom fields support](#) for more information.

**Parent topic:** [MailChimp Activities](#)

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## Using the MailChimp Retrieve All Objects Activity

---

Use the Retrieve All Objects activity to retrieve objects in MailChimp. Refer to the Objects supported by MailChimp Connector.

### About this task

---

Use this task to retrieve all objects in MailChimp instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the MailChimp folder contents.
2. Drag the Retrieve All Objects activity icon onto the orchestration. Select the activity. The MailChimp Retrieve All Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MailChimp endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Object Type and List Name Browse available. List Name Browse is enable only for Member Object.
11. Click Browse to select the object. The Browse MailChimp window is displayed.
12. In the Object Type Browse MailChimp window, you can select the MailChimp object types from the object type list. Click OK.
13. In the List Name Browse MailChimp window, you can select the MailChimp List Name. Click OK.
14. In the Checklist, click Retry. Review the default settings and make the required changes.

Note: For more information, see [Specifying the Retry options for MailChimp REST API activities](#).

15. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Retrieve All Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
16. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
17. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
18. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MailChimp Retrieve All Objects activity.

Note:

count and offset is used for pagination. By default count is 10 and offset as 0.

MailChimp also supports custom field value update. Please refer section about [Custom fields support](#) for more information.

**Parent topic:** [MailChimp Activities](#)

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## Using the MailChimp Search Objects Activity

---

Use the Search Objects activity to search objects in MailChimp. Refer to the Objects supported by MailChimp Connector.

### About this task

---

Use this task to Search objects in MailChimp instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the MailChimp folder contents.
2. Drag the Search Objects activity icon onto the orchestration. Select the activity. The MailChimp Search Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MailChimp endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Object Type and List Name Browse available. List Name Browse is enable only for Member object.
11. Click Browse to select the object. The Browse MailChimp window is displayed.
12. In the Object Type Browse MailChimp window, you can select the MailChimp object types from the object type list. Click OK.
13. In the List Name Browse MailChimp window, you can select the MailChimp List Name. Click OK.
14. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MailChimp REST API activities](#).
15. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Search Objects activity are displayed as nodes under the request input parameter in the To Activity panel.

16. Create a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

17. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.

18. Create a map between the output parameters and orchestration variables.

#### Query Parameter

Below are the query parameters of the Search objects:

Table 1. Query Parameter

Field Name	Description
fieldFilter	It holds fieldSelectionOption and list of fields. This set of parameters are optional. If the values are not provided then entire object response will be displayed.
fieldSelectionOption	This parameter is used to manage the response fields. Allowed values are INCLUDE or EXCLUDE. User must specify this value. If "INCLUDE" option is given, only values for selected "fields" element will be present in response. If "EXCLUDE" option is given, values of selected "fields" element will be absent in response.
fields	This is list of standard object field names that can be present or absent in the response. User can be specify multiple fields by expanding occurrences.
criteria	It holds field, and value. This set of parameters are optional. If the values are not provided then entire object response will be displayed. Multiple criteria can be specified by expanding occurrences for the criteria node.
field	The standard object field name to be used in the criteria. User must specify this value.
value	The value of the field used in the search. User must specify this value.
count	It is used for pagination. By default count is 10.
offset	It is used for pagination. By default offset is 0.

## Results

You have configured the MailChimp Search Objects activity.

Note:

MailChimp also supports custom field value update. Please refer section about [Custom fields support](#) for more information.

**Parent topic:** [MailChimp Activities](#)

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## Using the MailChimp Upsert Members Activity

Use the Upsert Members activity to create or update Member in MailChimp.

### About this task

Use this task to Upsert Member in MailChimp instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the MailChimp folder contents.
2. Drag the Upsert Members activity icon onto the orchestration. Select the activity. The MailChimp Upsert Members Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MailChimp endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. List Name Browse available.
11. Click Browse to select List Name. The Browse MailChimp window is displayed.
12. In the List Name Browse MailChimp window, you can select the MailChimp List Name. Click OK.
13. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MailChimp REST API activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Upsert Members activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MailChimp Upsert Members activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type are supported.

MailChimp also supports custom field value update. Please refer section about [Custom fields support](#) for more information.

**Parent topic:** [MailChimp Activities](#)

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## Using the MailChimp Retrieve Reports Activity

---

Use the Retrieve Reports activity to retrieve Click Report, Members Click Report, Email Activity Report, Campaign Recipient Report, Unsubscribed Member report from MailChimp.

## About this task

---

Use the Retrieve Reports activity to retrieve Click Report, Members Click Report, Email Activity Report, Campaign Recipient Report, Unsubscribed Member report from MailChimp.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the MailChimp folder contents.
2. Drag the Retrieve Reports activity icon onto the orchestration. Select the activity. The MailChimp Retrieve Reports Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MailChimp endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Object Type browse is available.
11. Click Browse to select an object. The Browse MailChimp window is displayed.
12. In the Object Type Browse MailChimp window, you can select the MailChimp object types from the object type list. Click OK.
13. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MailChimp REST API activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Retrieve Reports activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MailChimp Retrieve Reports activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type are supported.

**Parent topic:** [MailChimp Activities](#)

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## Using the MailChimp Retrieve All Reports Activity

---

Use the Retrieve All Objects activity to retrieve Campaign Feedback Report, Click Report, Click Reports, Domain Performance Report, Social Activity Report, Email Activity Report, Location Report, Recipients Report, Campaign Sub Report, and Unsubscribed Member Report from MailChimp.

### About this task

---

Use this task to retrieve all reports in MailChimp instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the MailChimp folder contents.

2. Drag the Retrieve All Reports activity icon onto the orchestration. Select the activity. The MailChimp Retrieve All Reports Checklist is displayed.
  3. In the checklist, click Summary.
  4. Review the contents of the Activity Name field, and make the required changes.
  5. In the checklist, click Pick Endpoint.
  6. Click Browse and use the Project Explorer dialog box to select the relevant MailChimp endpoint.
  7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
  8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
  9. In the checklist, click Configure.
  10. Object Type browse is available.
  11. Click Browse to select an object. The Browse MailChimp window is displayed.
  12. In the Object Type Browse MailChimp window, you can select the MailChimp object types from the object type list. Click OK.
  13. In the Checklist, click Retry. Review the default settings and make the required changes.
- Note: For more information, see [Specifying the Retry options for MailChimp REST API activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Retrieve All Reports activity are displayed as nodes under the request input parameter in the To Activity panel.
  15. Create a map between the orchestration variables and the input parameter of the activity.
- Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
  17. Create a map between the output parameters and orchestration variables.

### Query Parameter

Below are the query parameters of the Retrieve All Reports:

Table 1. Query Parameter

Field Name	Description
fieldFilter	It holds fieldSelectionOption and list of fields. This set of parameters are optional. If the values are not provided then entire object response will be displayed.
fieldSelectionOption	This parameter is used to manage the response fields. Allowed values are INCLUDE or EXCLUDE. User must specify this value. If "INCLUDE" option is given, only values for selected "fields" element will be present in response. If "EXCLUDE" option is given, values of selected "fields" element will be absent in response.
fields	This is list of standard object field names that can be present or absent in the response. User can be specify multiple fields by expanding occurrences.
criteria	It holds field, and value. This set of parameters are optional. If the values are not provided then entire object response will be displayed. Multiple criteria can be specified by expanding occurrences for the criteria node.
field	The standard object field name to be used in the criteria. User must specify this value.
value	The value of the field used in the search. User must specify this value.
count	It is used for pagination. By default count is 10.
offset	It is used for pagination. By default offset is 0.

## Results

You have configured the MailChimp Retrieve All Reports activity.

Note:

- fieldFilter is optional. To support partial response, set "fieldSelectionOption" value as either "INCLUDE" or "EXCLUDE". "fields" should have element name to be excluded and included. Expand occurrence to have support multiple fields.
- "criteria" supports the filtering feature, where in field is name of the element and value is value to be looked for. Expand the occurrence of "criteria" for different set of filters.

- `count` and offset is used for pagination. By default count is 10 and offset as 0.

**Parent topic:** [MailChimp Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MailChimp\\_retrieve\\_all\\_reports\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MailChimp_retrieve_all_reports_activity.html)

## Using the MailChimp Send Campaigns Activity

---

Use the Send Campaigns activity to Send a MailChimp campaign.

### About this task

---

Use this task to send a campaign in MailChimp instance in just one call. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the MailChimp folder contents.
2. Drag the Send Campaigns activity icon onto the orchestration. Select the activity. The MailChimp Send Campaigns Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MailChimp endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. This is atomic activity so you should see the message “No additional configuration is required for this activity”.
11. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MailChimp REST API activities](#).
12. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Send Campaigns activity are displayed as nodes under the request input parameter in the To Activity panel.
13. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
14. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
15. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the MailChimp Send Campaigns activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type are supported.

**Parent topic:** [MailChimp Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MailChimp\\_send\\_campaigns\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MailChimp_send_campaigns_activity.html)

## Using the MailChimp Cancel Campaigns Activity

---

Use the Cancel Campaigns activity to Cancel a Regular or Plain-Text Campaign after you send, before all of your recipients receive it. This feature is included with MailChimp Pro.

### About this task

---

Use this task to cancel a Regular or Plain-Text campaign in MailChimp instance in just one call. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the MailChimp folder contents.
2. Drag the Cancel Campaigns activity icon onto the orchestration. Select the activity. The MailChimp Cancel Campaigns Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MailChimp endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. This is atomic activity so you should see the message "No additional configuration is required for this activity".
11. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MailChimp REST API activities](#).
12. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Cancel Campaigns activity are displayed as nodes under the request input parameter in the To Activity panel.
13. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
14. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
15. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the MailChimp Cancel Campaigns activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type are supported.

**Parent topic:** [MailChimp Activities](#)

## Using the MailChimp Batch Create Objects Activity

---

Use the Batch Create Objects activity to create objects in MailChimp asynchronously. Refer to the Objects supported by MailChimp Connector.

### About this task

---

Use this task to create more than one objects in MailChimp instance in just one call. The call to this activity is an asynchronous call where the input data is sent to the activity for processing and the actual response is not sent back to the orchestration. Batch Id is sent as a response. Using this Batch Id, periodically check the batch status using Get Batch Status Activity.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the MailChimp folder contents.
2. Drag the Batch Create Objects activity icon onto the orchestration. Select the activity. The MailChimp Batch Create Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MailChimp endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Object Type and List Name available. List Name Browse is enabled only for Member Object.
11. Click Browse to select the object. The Browse MailChimp window is displayed.
12. In the Object Type Browse MailChimp window, you can select the MailChimp object types from the object type list. Click OK.
13. In the List Name Browse MailChimp, you can select the MailChimp List Name. Click OK.
14. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MailChimp REST API activities](#).
15. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Batch Create Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
16. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
17. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
18. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the MailChimp Batch Create Objects activity.

Note:

MailChimp also supports custom field value creation. Please refer section about [Custom fields support](#) for more information.

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type are supported.

**Parent topic:** [MailChimp Activities](#)

---

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## Using the MailChimp Batch Update Objects Activity

---

Use the Batch Update Objects activity to update objects in MailChimp asynchronously. Refer to the Objects supported by MailChimp Connector.

### About this task

---

Use this task to update more than one objects in MailChimp instance in just one call. The call to this activity is an asynchronous call where the input data is sent to the activity for processing and the actual response is not sent back to the orchestration. Batch Id is sent as a response. Using this Batch Id, periodically check the batch status using Get Batch Status Activity.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the MailChimp folder contents.
2. Drag the Batch Update Objects activity icon onto the orchestration. Select the activity. The MailChimp Batch Update Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MailChimp endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Object Type and List Name Browse available. List Name Browse is enabled only for Member Object.
11. Click Browse to select the object. The Browse MailChimp window is displayed.
12. In the Object Type Browse MailChimp window, you can select the MailChimp object types from the object type list. Click OK.
13. In the List Name Browse MailChimp, you can select the MailChimp List object. Click OK.
14. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MailChimp REST API activities](#).
15. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Batch Update Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
16. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
17. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
18. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the MailChimp Batch Update Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type are supported.

**Parent topic:** [MailChimp Activities](#)

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## Using the MailChimp Batch Upsert Objects Activity

---

Use the Batch Upsert Objects activity to create or update Member objects in MailChimp.

### About this task

---

Use this task to create or update more than one objects in MailChimp instance in just one call. The call to this activity is an asynchronous call where the input data is sent to the activity for processing and the actual response is not sent back to the orchestration. Batch Id is sent as a response. Using this Batch Id, periodically check the batch status using Get Batch Status Activity.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the MailChimp folder contents.
2. Drag the Batch Upsert Objects activity icon onto the orchestration. Select the activity. The MailChimp Batch Upsert Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MailChimp endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Object Type and List Name Browse available. List Name Browse is enable only for Member object.
11. Click Browse to select List Name. The Browse MailChimp window is displayed.
12. In the Object Type Browse MailChimp window, you can select the MailChimp object types from the object type list. Click OK.
13. In the List Name Browse MailChimp window, you can select the MailChimp List object. Click OK.
14. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MailChimp REST API activities](#).
15. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Batch Upsert Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
16. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
17. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
18. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the MailChimp Batch Upsert Objects activity.

Note:

MailChimp also supports custom field value update. Please refer section about [Custom fields support](#) for more information.

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type are supported.

**Parent topic:** [MailChimp Activities](#)

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## Using the MailChimp Batch Retrieve Objects Activity

Use the Batch Retrieve Objects activity to retrieve objects in MailChimp asynchronously. Refer Objects Supported by the MailChimp Connector.

### About this task

Use this task to retrieve more than one objects in MailChimp instance in just one call. The call to this activity is an asynchronous call where the input data is sent to the activity for processing and the actual response is not sent back to the orchestration. Batch Id is sent as a response. Using this Batch Id, periodically check the batch status using Get Batch Status Activity.

### Procedure

1. In an active orchestration, open the Activities tab and expand the MailChimp folder contents.
2. Drag the Batch Retrieve Objects activity icon onto the orchestration. Select the activity. The MailChimp Batch Retrieve Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MailChimp endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Object Type and List Name Browse available. List Name Browse is enable only for Member object.
11. Click Browse to select List Name. The Browse MailChimp window is displayed.
12. In the Object Type Browse MailChimp window, you can select the MailChimp object types from the object type list. Click OK.
13. In the List Name Browse MailChimp window, you can select the MailChimp List Name. Click OK.
14. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MailChimp REST API activities](#).
15. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Batch Retrieve Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
16. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
17. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
18. Create a map between the output parameters and orchestration variables.

Table 1. Batch Retrieve Parameter

Field Name	Description
retrieveAll	retrieveAll defaults to false. Decides whether to execute retrieve or retrieveAll operation. If retrieveAll is set to true, retrieve All Operation will be executed.

Table 2. retrieveAll Validation cases

retrieveAll flag	Scenario	Validation Message
retrieveAll is true	Object supports only retrieve operation	Retrieve All Option is not available for this Object.
retrieveAll is true	Object support both retrieve and retrieveAll. And ID's are provided, Which is part of retrieve operation	ID should not be provided for RetrieveAll functionality.
retrieveAll is true	Parent Id is not provided	ID should be provided.
retrieveAll is false or not provided	Object supports only retrieveAll operation	Retrieve Option is not available for this Object.

retrieveAll flag	Scenario	Validation Message
retrieveAll is false or not provided	Object support both retrieve and retrieveAll. Required Id's for retrieve operation is not provided.	Either RetrieveAll should be true or ID should be provided.
retrieveAll is false or not provided	Object support both retrieve and retrieveAll. Count or offset values are set	count and offset are applicable only if retrieveAll is true.

## Results

---

You have configured the MailChimp Batch Retrieve Objects activity.

Note:

MailChimp also supports custom field value update. Please refer section about [Custom fields support](#) for more information.

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type are supported.

**Parent topic:** [MailChimp Activities](#)

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## Using the MailChimp Get Batch Status Activity

---

Use the Get Batch Status activity to get summary of batch requests that have been made in MailChimp.

### About this task

Use this task to get batch status in MailChimp instance in just one call. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the MailChimp folder contents.
2. Drag the Get Batch Status activity icon onto the orchestration. Select the activity. The MailChimp Get Batch Status Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MailChimp endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. This is atomic activity so you should see the message "No additional configuration is required for this activity".
11. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MailChimp REST API activities](#).
12. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Get Batch Status activity are displayed as nodes under the request input parameter in the To Activity panel.
13. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a

mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

14. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
15. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MailChimp Get Batch Status activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type are supported.

**Parent topic:** [MailChimp Activities](#)

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## Using the MailChimp Get Batch Results Activity

---

Use the Get Batch Results activity to read Batch responses from MailChimp. There is no MailChimp API available. However this activity simplifies the user's complexity to parse the batch response. It reads archived gzipped response file and populates the result in Map Outputs. For supported Objects, refer Objects Supported by the MailChimp Connector.

### About this task

---

Use this task to read the Batch responses objects in MailChimp instance. The call to this activity is a synchronous call where the response\_body\_url is sent to the activity for processing and the actual response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the MailChimp folder contents.
2. Drag the Get Batch Results activity icon onto the orchestration. Select the activity. The MailChimp Get Batch Results Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MailChimp endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Operation Type, Object Type and List Name Browse available. List Name Browse is enable only for Member Object.
11. Click Browse to select the operation type. The Browse MailChimp window is displayed.
12. In the Operation Type Browse MailChimp window, you can select the MailChimp Batch Operation type from the object type list. Click OK.
13. Click Browse to select an object. The Browse MailChimp window is displayed.
14. In the Object Type Browse MailChimp window, you can select the MailChimp Object types from the object type list. Click OK.
15. In the List Name Browse MailChimp window, you can select the MailChimp List Name. Click OK.
16. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MailChimp REST API activities](#).
17. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Batch Retrieve Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
18. Create a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

19. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
20. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MailChimp Get Batch Results activity.

Note:

MailChimp also supports custom field value update. Please refer section about [Custom fields support](#) for more information.

- If user makes an incorrect object selection in Configure panel and Map input, the response would be empty. There is no means to validate the input given by the user. So, if the content of response\_body\_url is not corresponding to the selected batch operation type and object type, the response would be empty.
- "response\_body\_url" is only valid for 10 minutes. If the URL expires, user must rerun the "Get Batch Status" activity to get a new URL.

**Parent topic:** [MailChimp Activities](#)

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## Specifying the Retry options for MailChimp REST API activities

---

Specifying the Retry parameters is one of the tasks to configure a MailChimp activity. The MailChimp REST API connector uses a single login session for all connections to the MailChimp REST API endpoint. If a session expires, the connector automatically establishes a new session. The connector does not count the initial attempt to reacquiring the session as a retry attempt. The connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails. The retrial exceptions include 503 and 504 for this error codes.

### About this task

---

This section contains the procedure for configuring the Retry options for MailChimp REST API activities.

### Procedure

---

1. Select the Retry task from the Checklist. The retry pane is displayed.
2. Configure the retry and timeout options for connecting to an MailChimp instance, as described in the following table:

Table 1. Retry options

Retry Fields	Description
Wait __ seconds between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the MailChimp instance.

Retry Fields	Description
Retry __ times before failing.	<p>Specifies the retry count – the maximum number of times the Integration Appliance attempts to establish a connection to the MailChimp instance before issuing an error and stopping the processing of the current orchestration job.</p> <p>Note: If you deploy an orchestration that contains the MailChimp REST API activity and the Integration Appliance cannot connect to the specified MailChimp instance, the Integration Appliance logs the connections errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3, the first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.</p>
Stop processing rest of the records of the batch if failure detected even after the configured no. of retries.	<p>Specifies that if a batch of records is sent as input to an orchestration, and if failure is detected in between, then the remaining records should be processed or not.</p> <p>For example, if the retry count is set to 3 and a batch of 5 records is sent as input to the orchestration. If, after processing the 1st record of batch, the Integration Appliance cannot connect to the specified MailChimp instance even after configured number of retries i.e. 3 retry attempts, then the processing of the remaining 4 records will not be done and execution will be terminated if this option is selected.</p> <p>For the similar settings, if this option is not selected, then the remaining 4 records would be attempted to be processed.</p>

**Parent topic:** [MailChimp Activities](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MailChimp\\_Specifying\\_Retry\\_options\\_for\\_MailChimp\\_REST\\_API\\_activities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MailChimp_Specifying_Retry_options_for_MailChimp_REST_API_activities.html)

## Marketto Activities

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- [Overview of Marketto Connector](#)
- [Creating or editing an endpoint for Marketto](#)

Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to Marketto platform. Marketto connector supports only OAuth authentication mechanism so as to authorize users to perform operations. Marketto connector only supports HTTPS connection.
- [Using the Marketto Create Objects Activity](#)

Use the Create Objects activity to create objects in Marketto.
- [Using the Marketto Update Objects Activity](#)

Use the Update Objects activity to update objects in Marketto.
- [Using the Marketto Upsert Objects Activity](#)

Use the Upsert Objects activity to upsert objects in Marketto.
- [Using the Marketto Delete Objects Activity](#)

Use the Delete Objects activity to delete an object from Marketto.
- [Using the Marketto Retrieve Objects Activity](#)

Use the Retrieve Objects activity to fetch details of object from Marketto.
- [Using the Marketto Retrieve All Objects Activity](#)

Use the Retrieve All Objects activity to fetch details of object from Marketto.
- [Using the Marketto Search Objects Activity](#)

Use the Search Objects activity to fetch details of object from Marketto.
- [Using the Marketto Get Paging Token Activity](#)

Use Get Paging Token activity to get the nextPageToken required for fetching details of Lead Activity Object in Retrieve All Activity in Marketto.
- [Using the Marketto Request Campaigns Activity](#)

Use Request Campaigns activity to run an existing Marketto lead in a Marketto Smart Campaign. The Smart Campaign must have a “Campaign is Requested” trigger with a Web Service API source.

- [Using the Marketo Schedule Campaigns Activity](#)  
Use Schedule Campaigns activity to schedules a batch Smart Campaign to run either immediately or at a future date.
- [Using the Marketo Merge Lead Activity](#)  
Use the Merge Lead activity to merge lead in Marketo.
- [Using the Marketo Add Leads to List Activity](#)  
Use the Add Leads to List activity to add leads in specific list in Marketo.
- [Using the Marketo Remove Leads from List Activity](#)  
Use the Remove Leads from List activity to remove leads from specific list in Marketo.
- [Using the Marketo Member of List Activity](#)  
Use the Member of List activity to find out if leads are a member of a given list in Marketo.
- [Using the Marketo Import Lead Activity](#)  
Use the Import Lead activity to import lead in Marketo.
- [Using the Marketo Get Import Lead Status Activity](#)  
Use the Get Import Lead Status activity to get status of imported lead from Marketo.
- [Using the Marketo Get Import Error File Activity](#)  
Use the Get Import Error File activity to get error file from Import Lead call in Marketo.
- [Using the Marketo Get Import Warning File Activity](#)  
Use the Get Import Warning File activity to get warning file from Import Lead call in Marketo.
- [Using the Marketo Send Sample Email Activity](#)  
Use the Send Sample Email activity to send sample email to a given address from Marketo.
- [Using the Marketo Update Email Content in Editable Section Activity](#)  
Use the Update Email Content activity to update email content in editable section in Marketo.
- [Using the Marketo Approve Objects Activity](#)  
Use the Approve Objects activity to approve Email, Email Template and Snippet in Marketo.
- [Using the Marketo Unapprove Objects Activity](#)  
Use the Unapprove Objects activity to un-approve Email, Email Template and Snippet in Marketo.
- [Using the Marketo Discard Objects Activity](#)  
Use the Discard Objects activity to discard Email, Email Template and Snippet in Marketo.
- [Using the Marketo Clone Objects Activity](#)  
Use the Clone Objects activity to make clone of Email, Email Template and Snippet in Marketo.
- [Specifying the Retry options for Marketo REST API activities](#)  
Specifying the Retry parameters is one of the tasks to configure a Marketo activity. The Marketo REST API connector uses a single login session for all connections to an Marketo REST API endpoint. If a session expires, the connector automatically establishes a new session. The connector does not count the initial attempt to reacquiring the session as a retry attempt. The connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails. The retriable exceptions include 503 and 504 for this error codes.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_Marketoactivities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_Marketoactivities.html)

## Overview of Marketo Connector

---

Marketo is a marketing automation platform that enables marketers to manage personalized multi-channel programs and campaigns to prospects and customers. Marketo automates, executes, and measures key marketing and lead management processes along every step of the sales funnel — from lead generation to close.

Marketo supports only cloud environments.

Marketo connector interacts using Restful Web Service API™s, which allow users to access bi-directional data-level integration.

You can perform the following activities using Marketo connector:

- Outbound activities:
  - Create Objects
  - Update Objects
  - Upsert Objects

- o Delete Objects
- o Retrieve Objects
- o Retrieve All Objects
- o Search Objects
- o Get Paging Token
- o Request Campaigns
- o Schedule Campaigns
- o Merge Lead
- o Add Leads to List
- o Remove Leads from List
- o Member of List
- o Import Leads
- o Get Import Lead Status
- o Get Import Error File
- o Get Import Warning File
- o Send Sample Email
- o Update Email Content in editable section
- o Approve Objects
- o Unapprove Objects
- o Discard Objects
- o Clone Objects

The default Marketo API version supported by this connector is v1.

**Parent topic:** [Marketo Activities](#)

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Marketo\\_Overview.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Marketo_Overview.html)

## Creating or editing an endpoint for Marketo

Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to Marketo platform. Marketo connector supports only OAuth authentication mechanism so as to authorize users to perform operations. Marketo connector only supports HTTPS connection.

### Selecting or editing a Marketo endpoint

1. In the Create Endpoint or Edit Endpoint pane, configure the Marketo endpoint as described in the following table.  
Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.
2. Click Test Connection to confirm that the connection details are valid and you are able to connect to Marketo successfully.
3. Click OK.

Table 1. Connection properties

Field Name	Description
Host Name	Host Name for Marketo instance (cloud)
API Version	API version for Marketo instance. Default value: v1
Client Id	OAuth Client Id for accessing Marketo instance
Client Secret	OAuth Client Secret for accessing Marketo instance

Following parameters are required in endpoint test connection screen to make connection via Proxy:

Field Name	Description

Field Name	Description
Host name	Host Name of Proxy Network
Port	Port Number of Proxy Network
User Name	User Name for accessing service via proxy network
Password	Password for accessing service via proxy network

Note: In the Map Input section of each activity, relevant fields of endpoint panel are available to override at runtime. User can provide data to various groups of parameters like Proxy Details, Connection Details or Authentication Details to override. Providing only partial field data in a selected group is not allowed to override.

## Objects Supported by the Marketo Connector

---

Following objects are supported by the Marketo Connector and the API available for the supported object:

Table 2. CRUD Operations

Marketo Objects	Create	Update	Upsert	Delete	Retrieve All	Retrieve	Search
Lead	Yes	Yes		Yes	Yes	Yes	Yes
List					Yes	Yes	Yes
Campaign					Yes	Yes	Yes
Opportunity	Yes	Yes	Yes	Yes			Yes
Company	Yes	Yes	Yes	Yes			Yes
Sales Person	Yes	Yes	Yes	Yes			Yes
Custom Object	Yes	Yes	Yes	Yes			Yes
Opportunity Roles	Yes	Yes	Yes	Yes			Yes
Lead Activity					Yes		
Deleted Leads					Yes		
Lead Changes							Yes
Activity Types					Yes		
Folder	Yes	Yes		Yes	Yes	Yes	Yes
Folder Content					Yes		
Email Template	Yes	Yes		Yes	Yes	Yes	Yes
Email Template Content		Yes				Yes	
Email	Yes	Yes		Yes	Yes	Yes	Yes
Email Content		Yes				Yes	
Email Dynamic Content		Yes				Yes	
Snippet	Yes	Yes		Yes	Yes	Yes	
Snippet Content		Yes				Yes	
Snippet Dynamic Content		Yes				Yes	
File	Yes				Yes	Yes	Yes
Segmentation					Yes		
Segment					Yes		

### Atomic Operations:

- For Leads

- Merge Leads
  - Get Paging Token
- For Lists
  - Remove Leads from list
  - Add Leads to list
  - Member of List
- Bulk APIs for Lead
  - Import Leads
  - Get Import Lead Status
  - Get Import Failure File
  - Get Import Warning File
- For Campaign
  - Schedule Campaign
  - Request Campaign
- For Email
  - Update Email Content in Editable Section
  - Send Sample Email
- For Email, Email Template and Snippet
  - Approve Objects
  - Unapprove Objects
  - Discard Draft Objects
  - Clone Objects

## **Custom Objects support:**

---

Marketo supports Custom Objects. User can define custom object only using Marketo UI. Once custom object is defined, user can use the connector to Create, Update, Upsert, Delete and Search records of custom object.

Since the connector uses XML based input/output only those Custom Objects would be supported whose names meets the following criteria:

- Begin with Alphabet
- Contains only alphanumeric characters
- Special characters only \_ (Underscore)

Note: Custom objects not meeting above criteria would not be listed in the list of objects for activities.

## **Custom Fields support**

---

Marketo supports custom fields only for Lead object and custom objects.

For Create and Update activities, in the Map Inputs of lead object will have additional nodes for custom fields so that user can provide values for them.

For Retrieve, RetrieveAll and Search activity, the response object will have custom fields data if exists.

For example, Lead object Map input/output:

```
company
billingStreet
billingCity
.
.
customField1
customField2
```

**Parent topic:** [Marketo Activities](#)

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# Using the Marketo Create Objects Activity

---

Use the Create Objects activity to create objects in Marketo.

## About this task

---

Use this task to create objects in the Marketo. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Marketo folder contents.
2. Drag the Create Objects activity icon onto the orchestration. Select the activity. The Marketo Create Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Marketo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse Marketo window is displayed.
11. In the Browse Marketo window, you can select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Create Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
  - o Different objects have different sets of mandatory fields to create a record. Mandatory fields, if not specified will result into error message listing out missing fields.
  - o For create File, files of types text/html, text/plain are supported. ContentType should be provided with one of this values with data in field called `file`.
- Note:
  - o Create File and Create Email template will need binary data as input parameter for fields `file` and `content` respectively.
  - o In Create File if we try to upload same file again and
    - If `insert only` flag is true then it will throw the error message for duplicate file creation.
    - If `insert only` flag is false then it will execute the request successfully but the file content will not be updated.
  - o Create Custom Activities is not supported. The feature is not enabled in the Marketo Instance hence not implemented. Ticket has been raised with Marketo support team.
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Marketo Create Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the Object Name (For example: Company) field in the To Activity pane of Map Inputs, and select Expand Occurrences.

**Parent topic:** [Marketo Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Marketo\\_create\\_objects\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Marketo_create_objects_activity.html)

## Using the Marketo Update Objects Activity

---

Use the Update Objects activity to update objects in Marketo.

### About this task

---

Use this task to update objects in the Marketo. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Marketo folder contents.
2. Drag the Update Objects activity icon onto the orchestration. Select the activity. The Marketo Update Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Marketo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse Marketo window is displayed.
11. In the Browse Marketo window, you can select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Update Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

Table 1. Mandatory Field Limitations

Field Name	Field	Description
<ul style="list-style-type: none"><li>○ Company</li><li>○ Custom Objects</li><li>○ Opportunity</li><li>○ OpportunityRole</li><li>○ Sales Person</li></ul>	dedupeBy	This field is used for deduplication of data for mentioned list of objects only. It has below permissible values: <ul style="list-style-type: none"><li>○ dedupeFields</li><li>○ idField</li></ul>

### Results

---

You have configured the Marketo Update Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the input (For example: Company) field in the To Activity pane of Map Inputs, and select Expand Occurrences.

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## Using the Marketo Upsert Objects Activity

---

Use the Upsert Objects activity to upsert objects in Marketo.

### About this task

---

Use this task to upsert objects in the Marketo. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Marketo folder contents.
2. Drag the Upsert Objects activity icon onto the orchestration. Select the activity. The Marketo Upsert Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Marketo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse Marketo window is displayed.
11. In the Browse Marketo window, you can select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes.  
*Note:* For more information, see [Specifying the Retry options for Marketo REST API activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Upsert Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.  
*Note:* Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

**Mandatory Field:** For Upsert, mandatory field validation on input data will be taken care by API itself.

15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the Marketo Upsert Objects activity.

*Note:*

You can add more than one object as input to this activity. To add more than one object as input, right click the input (For example: Company) field in the To Activity pane of Map Inputs, and select Expand Occurrences.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Marketo\\_upsert\\_objects\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Marketo_upsert_objects_activity.html)

## Using the Marketo Delete Objects Activity

---

Use the Delete Objects activity to delete an object from Marketo.

### About this task

---

Use this task to delete objects in the Marketo. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Marketo folder contents.
2. Drag the Delete Objects activity icon onto the orchestration. Select the activity. The Marketo Delete Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Marketo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse Marketo window is displayed.
11. In the Browse Marketo window, you can select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Delete Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

Table 1. Mandatory Field Limitations

Field Name	Field	Description
<ul style="list-style-type: none"><li>○ Company</li><li>○ Custom Objects</li><li>○ Opportunity</li><li>○ OpportunityRole</li><li>○ Sales Person</li></ul>	deleteBy	deleteBy is a deletion method which has following permissible values: <ul style="list-style-type: none"><li>○ dedupeFields</li><li>○ idField</li></ul>

For rest of the objects mandatory field validation on input data will be taken care by API itself.

### Results

---

You have configured the Marketo Delete Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the input (For example: Company) field in the To Activity pane of Map Inputs, and select Expand Occurrences.

**Parent topic:** [Marketo Activities](#)

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## Using the Marketo Retrieve Objects Activity

---

Use the Retrieve Objects activity to fetch details of object from Marketo.

### About this task

---

Use this task to retrieve objects based on ID in the Marketo instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Marketo folder contents.
2. Drag the Retrieve Objects activity icon onto the orchestration. Select the activity. The Marketo Retrieve Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Marketo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse Marketo window is displayed.
11. In the Browse Marketo window, you can select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Retrieve Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the Marketo Retrieve Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the input (For example: Campaign) field in the To Activity pane of Map Inputs, and select Expand Occurrences.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Marketo\\_retrieve\\_objects\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Marketo_retrieve_objects_activity.html)

## Using the Marketo Retrieve All Objects Activity

---

Use the Retrieve All Objects activity to fetch details of object from Marketo.

### About this task

---

Use this task to retrieve all object details in the Marketo instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Marketo folder contents.
2. Drag the Retrieve All Objects activity icon onto the orchestration. Select the activity. The Marketo Retrieve All Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Marketo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse Marketo window is displayed.
11. In the Browse Marketo window, you can select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes.

Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).

The next two points (step 13 and 14) is not applicable for **Activity Type** Object as no input is required for this activity.

13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Retrieve All Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

Table 1. Mandatory Fields

Object Name	Field	Description
Folder Content	FolderId	Is mandatory
Lead Object	<ul style="list-style-type: none"><li>○ retrieveBy</li><li>○ id</li></ul>	<ul style="list-style-type: none"><li>○ Possible values of retrieveBy are ListId and ProgramId</li><li>○ Value of ID will be ID of List or ID of Program whose leads details are required</li></ul>

Object Name	Field	Description
Lead Activity	<ul style="list-style-type: none"> <li>◦ ActivityTypeId</li> <li>◦ nextPageToken</li> </ul>	<ul style="list-style-type: none"> <li>◦ Get Paging Token atomic activity can be used to get the value of nextPageToken.</li> <li>◦ Multiple activityTypeId can be provided in one request as it is unbounded.</li> </ul>
Segments	SegmentationId	Is mandatory

Table 2. Common Parameters

Object Name	Field
offset	Where to begin when retrieving entries. Can be used in conjunction with maxReturn parameter to page through large result sets. Default: 0
maxReturn	Max number of entities to be returned. Default: 20. Maximum: 200.
batchSize	The number of records to be returned in a single call (default and max depends on Marketo API. currently its 300)
nextPageToken	Used to paginate through large result sets

## Results

---

You have configured the Marketo Retrieve All Objects activity.

**Parent topic:** [Marketo Activities](#)

---

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## Using the Marketo Search Objects Activity

---

Use the Search Objects activity to fetch details of object from Marketo.

### About this task

---

Use this task to search objects based on specified filter value in the Marketo instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Marketo folder contents.
2. Drag the Search Objects activity icon onto the orchestration. Select the activity. The Marketo Search Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Marketo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse Marketo window is displayed.
11. In the Browse Marketo window, you can select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes.

Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).

13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Search Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Marketo Search Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the Id (for example: Campaign) field in the To Activity pane of Map Inputs, and select Expand Occurrences.

Also you can add more than one value for fields and filterValues as input to the activity (for example: Lead). To add more than one value as input, right click the **filterValues and fields** in the To Activity pane of Map Inputs, and select Expand Occurrences.

Table 1. Details of input fields

Field Name	Description
filterType	This parameter value depends on supported filter types for object.
filterValues	value which will be used for search operation, user can provide multiple values by expanding this node.
fields	list of field names to be returned in the response. If the fields parameter is not included in this request, the default fields corresponding to objects will be returned.
batchSize	The number of records to be returned in a single call (default and depends on Marketo API. currently its 300)
nextPageToken	Used to paginate through large result sets

**Parent topic:** [Marketo Activities](#)

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## Using the Marketo Get Paging Token Activity

---

Use Get Paging Token activity to get the nextPageToken required for fetching details of Lead Activity Object in Retrieve All Activity in Marketo.

### About this task

---

Use this task to get the nextPageToken required in fetching details of Lead Activity Object of Retrieve All Activity. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.

2. Drag the newly created Marketo endpoint to the orchestration and select Get Paging Token.
3. The Get Paging Token activity will be added to the orchestration. Double click the activity. The Marketo Get Paging Token Checklist is displayed.
4. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
5. Select the Map Inputs in the Checklist. The XML Schemas generated for that operation are displayed as nodes under the request input parameter in the To Activity panel.
6. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** sinceDateTime : Supported datetime format: 2014-10-06T13:22:17-08:00

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Marketo Get Paging Token activity.

**Parent topic:** [Marketo Activities](#)

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## Using the Marketo Request Campaigns Activity

---

Use Request Campaigns activity to run an existing Marketo lead in a Marketo Smart Campaign. The Smart Campaign must have a “Campaign is Requested” trigger with a Web Service API source.

### About this task

---

Use this task to run an existing Marketo lead in a Marketo Smart Campaign. The Smart Campaign must have a “Campaign is Requested” trigger with a Web Service API source. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Marketo endpoint to the orchestration and select Request Campaigns.
3. The Request Campaigns activity will be added to the orchestration. Double click the activity. The Marketo Request Campaigns Checklist is displayed.
4. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
5. Click the Map Inputs in the Checklist. The XML Schemas generated for that operation are displayed as nodes under the request input parameter in the To Activity panel.
6. Create a map between the orchestration variables and the input parameter of the activity.
  - o Mandatory Fields:
    - CampaignId
    - Leads
  - o In Leads, only ID is supported. You can provide multiple leads at one go by expanding the fields.
  - o Token field:
    - It’s an array of name/value pair.
    - The name of the token you want to send a new value for.

- Use the full token format as in the Marketo UI. For example, "{{my.message}} Only My tokens local to a program or folder can be replaced in this way.

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Marketo Request Campaigns activity.

**Parent topic:** [Marketo Activities](#)

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## Using the Marketo Schedule Campaigns Activity

---

Use Schedule Campaigns activity to schedules a batch Smart Campaign to run either immediately or at a future date.

### About this task

---

Use this task to get the schedules a batch Smart Campaign to run either immediately or at a future date. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Marketo endpoint to the orchestration and select Schedule Campaigns.
3. The Schedule Campaigns activity will be added to the orchestration. Double click the activity. The Marketo Schedule Campaigns Checklist is displayed.
4. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
5. Click the Map Inputs in the Checklist. The XML Schemas generated for that operation are displayed as nodes under the request input parameter in the To Activity panel.
6. Create a map between the orchestration variables and the input parameter of the activity.
  - Mandatory Fields:
    - Id
  - runAt: The time to run the scheduled campaign. If not provided, schedule it to be 5 mins later.
  - cloneToProgramName : When this attribute is present, the campaign's parent program will be cloned and the newly created campaign will be scheduled.Only 20 calls per day are allowed when this attribute is used.
  - Token field:
    - It's an array of name/value pair.
    - The name of the token you want to send a new value for.
    - Use the full token format as in the Marketo UI. For example, "{{my.message}} Only My tokens local to a program or folder can be replaced in this way.

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Marketo Schedule Campaigns activity.

**Parent topic:** [Marketo Activities](#)

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## Using the Marketo Merge Lead Activity

---

Use the Merge Lead activity to merge lead in Marketo.

### About this task

---

Use this task to merge two or more leads. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Marketo endpoint to the orchestration and select Merge Lead.
3. The Merge Lead activity will be added to the orchestration. Double click the activity. The Marketo Merge Lead Checklist is displayed.
4. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
5. Click the Map Inputs in the Checklist. The XML Schemas generated for that operation are displayed as nodes under the request input parameter in the To Activity panel.
6. Create a map between the orchestration variables and the input parameter of the activity.
  - o Mandatory Fields:
    - Id
    - LeadIds
- Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Marketo Merge Lead activity.

Note: You can merge multiple leads at one go using this activity since the input variable is unbounded.

**Parent topic:** [Marketo Activities](#)

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# Using the Marketo Add Leads to List Activity

---

Use the Add Leads to List activity to add leads in specific list in Marketo.

## About this task

---

Use this task to add one or more leads in any list. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Marketo endpoint to the orchestration and select Add Leads to List.
3. The Add Leads to List activity will be added to the orchestration. Double click the activity. The Marketo Add Leads to List Checklist is displayed.
4. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
5. Click the Map Inputs in the Checklist. The XML Schemas generated for that operation are displayed as nodes under the request input parameter in the To Activity panel.
6. Create a map between the orchestration variables and the input parameter of the activity.
  - o Mandatory Fields:
    - listId
    - LeadIds
- Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Marketo Add Leads to List activity.

Note: You can add multiple leads at one go using this activity since the input variable is unbounded.

**Parent topic:** [Marketo Activities](#)

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# Using the Marketo Remove Leads from List Activity

---

Use the Remove Leads from List activity to remove leads from specific list in Marketo.

## About this task

---

Use this task to remove one or more leads in any list. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Marketo endpoint to the orchestration and select Remove Leads from List.

3. The Remove Leads from List activity will be added to the orchestration. Double click the activity. The Marketo Remove Leads from List Checklist is displayed.
4. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
5. Click the Map Inputs in the Checklist. The XML Schemas generated for that operation are displayed as nodes under the request input parameter in the To Activity panel.
6. Create a map between the orchestration variables and the input parameter of the activity.
  - o Mandatory Fields:
    - listId
    - LeadIds

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Marketo Remove Leads from List activity.

Note: You can remove multiple leads at one go using this activity since the input variable is unbounded.

**Parent topic:** [Marketo Activities](#)

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## Using the Marketo Member of List Activity

---

Use the Member of List activity to find out if leads are a member of a given list in Marketo.

### About this task

---

Use this task to find out if leads are a member of a given list. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Marketo endpoint to the orchestration and select Member of List.
3. The Member of List activity will be added to the orchestration. Double click the activity. The Marketo Member of List Checklist is displayed.
4. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
5. Click the Map Inputs in the Checklist. The XML Schemas generated for that operation are displayed as nodes under the request input parameter in the To Activity panel.
6. Create a map between the orchestration variables and the input parameter of the activity.
  - o Mandatory Fields:
    - listId
    - LeadIds

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Marketo Member of List activity.

Note: You can find out multiple leads at one go using this activity since the input variable is unbounded.

**Parent topic:** [Marketo Activities](#)

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## Using the Marketo Import Lead Activity

---

Use the Import Lead activity to import lead in Marketo.

### About this task

---

Use this task to import leads to a given list in bulk. Leads are synched asynchronously. The response returns a batch id which can be used to get status of the sync.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
  2. Drag the newly created Marketo endpoint to the orchestration and select Import Lead.
  3. The Import Lead activity will be added to the orchestration. Double click the activity. The Marketo Import Lead Checklist is displayed.
  4. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
  5. Click the Map Inputs in the Checklist. The XML Schemas generated for that operation are displayed as nodes under the request input parameter in the To Activity panel.
  6. Create a map between the orchestration variables and the input parameter of the activity.
    - o Mandatory Fields:
      - Format
      - File (File content should be provided in csv, tsv, ssv format for importing lead)
- Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
  8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Marketo Import Lead activity.

**Parent topic:** [Marketo Activities](#)

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## Using the Marketo Get Import Lead Status Activity

---

Use the Get Import Lead Status activity to get status of imported lead from Marketo.

### About this task

---

Use this task to get status of lead operation. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Marketo endpoint to the orchestration and select Get Import Lead Status.
3. The Get Import Lead Status activity will be added to the orchestration. Double click the activity. The Marketo Get Import Lead Status Checklist is displayed.
4. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
5. Click the Map Inputs in the Checklist. The XML Schemas generated for that operation are displayed as nodes under the request input parameter in the To Activity panel.
6. Create a map between the orchestration variables and the input parameter of the activity.
  - o Mandatory Fields:
    - Id

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the Marketo Get Import Lead Status activity.

Note: You can get status of multiple leads at one go using this activity since the input variable is unbounded.

**Parent topic:** [Marketo Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Marketo\\_get\\_import\\_lead\\_status\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Marketo_get_import_lead_status_activity.html)

## Using the Marketo Get Import Error File Activity

---

Use the Get Import Error File activity to get error file from Import Lead call in Marketo.

### About this task

---

Use this task to get import error file. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Marketo endpoint to the orchestration and select Get Import Error File.
3. The Get Import Error File activity will be added to the orchestration. Double click the activity. The Marketo Get Import Error File Checklist is displayed.
4. In the checklist, click Configure. Use the radio button to select appropriate response format among XML and Base64 Encoded String. By Default XML format is selected. If value "XML" is selected, connector would parse the file received in API response and populate the lead structure in XML format along with error/warning messages. Connector will assume that csv returned by market endpoint is in a standard csv format. If option "Base64 Encoded String" is selected, no parsing would be done and the response would return the file as base64 encoded string. This is required for the scenarios where structure of the file is complex and is not a standard csv having a header and details.
5. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
6. Click the Map Inputs in the Checklist. The XML Schemas generated for that operation are displayed as nodes under the request input parameter in the To Activity panel.
7. Create a map between the orchestration variables and the input parameter of the activity.
  - o Mandatory Fields:
    - BatchId
- Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
8. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
9. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Marketo Get Import Error File activity.

**Parent topic:** [Marketo Activities](#)

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## Using the Marketo Get Import Warning File Activity

---

Use the Get Import Warning File activity to get warning file from Import Lead call in Marketo.

### About this task

---

Use this task to get import warning file. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Marketo endpoint to the orchestration and select Get Import Warning File.
3. The Get Import Warning File activity will be added to the orchestration. Double click the activity. The Marketo Get Import Warning File Checklist is displayed.
4. In the checklist, click Configure. Use the radio button to select appropriate response format among XML and Base64 Encoded String. By Default XML format is selected. If value "XML" is selected, connector would parse the file received in API response and populate the lead structure in XML format along with error/warning messages. Connector will assume that csv returned by market endpoint is in a standard csv format. If option "Base64 Encoded String" is selected, no parsing would be done and the response would return the file as base64 encoded string. This is required for the scenarios where structure of the file is complex and is not a standard csv having a header and details.
5. In the Checklist, click Retry. Review the default settings and make the required changes.

Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).

6. Click the Map Inputs in the Checklist. The XML Schemas generated for that operation are displayed as nodes under the request input parameter in the To Activity panel.
7. Create a map between the orchestration variables and the input parameter of the activity.
  - o Mandatory Fields:
    - BatchId
- Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
8. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
9. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Marketo Get Import Warning File activity.

**Parent topic:** [Marketo Activities](#)

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## Using the Marketo Send Sample Email Activity

---

Use the Send Sample Email activity to send sample email to a given address from Marketo.

### About this task

---

Use this task to send sample email. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Marketo endpoint to the orchestration and select Send Sample Email.
3. The Send Sample Email activity will be added to the orchestration. Double click the activity. The Marketo Send Sample Email Checklist is displayed.
4. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
5. Click the Map Inputs in the Checklist. The XML Schemas generated for that operation are displayed as nodes under the request input parameter in the To Activity panel.
6. Create a map between the orchestration variables and the input parameter of the activity.
  - o Mandatory Fields:
    - Id
    - EmailAddress
- Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Marketo Send Sample Email activity.

Note: You can send multiple emails at one go using this activity since the input variable is unbounded.

**Parent topic:** [Marketo Activities](#)

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## Using the Marketo Update Email Content in Editable Section Activity

---

Use the Update Email Content activity to update email content in editable section in Marketo.

### About this task

---

Use this task associate static or dynamic content to a given editable section. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
  2. Drag the newly created Marketo endpoint to the orchestration and select Update Email Content.
  3. The Update Email Content activity will be added to the orchestration. Double click the activity. The Marketo Update Email Content Checklist is displayed.
  4. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
  5. Click the Map Inputs in the Checklist. The XML Schemas generated for that operation are displayed as nodes under the request input parameter in the To Activity panel.
  6. Create a map between the orchestration variables and the input parameter of the activity.
    - o Mandatory Fields:
      - Id
      - HtmlId
- Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
  8. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the Marketo Update Email Content activity.

Note: You can update multiple email content at one go using this activity since the input variable is unbounded.

**Parent topic:** [Marketo Activities](#)

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# Using the Marketo Approve Objects Activity

---

Use the Approve Objects activity to approve Email, Email Template and Snippet in Marketo.

## About this task

---

Use this task to approve objects in the Marketo instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Marketo folder contents.
2. Drag the Approve Objects activity icon onto the orchestration. Select the activity. The Marketo Approve Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Marketo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse Marketo window is displayed.
11. In the Browse Marketo window, you can select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Approve Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
  - o Mandatory Field: ID
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Marketo Approve Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the id field in the To Activity pane of Map Inputs, and select Expand Occurrences.

**Parent topic:** [Marketo Activities](#)

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# Using the Marketo Unapprove Objects Activity

---

Use the Unapprove Objects activity to un-approve Email, Email Template and Snippet in Marketo.

## About this task

---

Use this task to un-approve objects in the Marketo instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Marketo folder contents.
2. Drag the Unapprove Objects activity icon onto the orchestration. Select the activity. The Marketo Unapprove Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Marketo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse Marketo window is displayed.
11. In the Browse Marketo window, you can select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Unapprove Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
  - o Mandatory Field: ID
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Marketo Unapprove Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the id field in the To Activity pane of Map Inputs, and select Expand Occurrences.

**Parent topic:** [Marketo Activities](#)

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## Using the Marketo Discard Objects Activity

---

Use the Discard Objects activity to discard Email, Email Template and Snippet in Marketo.

## About this task

---

Use this task to discard objects in the Marketo instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Marketo folder contents.
2. Drag the Discard Objects activity icon onto the orchestration. Select the activity. The Marketo Discard Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Marketo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse Marketo window is displayed.
11. In the Browse Marketo window, you can select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Discard Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
  - o Mandatory Field: ID
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Marketo Discard Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the id field in the To Activity pane of Map Inputs, and select Expand Occurrences.

**Parent topic:** [Marketo Activities](#)

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## Using the Marketo Clone Objects Activity

---

Use the Clone Objects activity to make clone of Email, Email Template and Snippet in Marketo.

### About this task

---

Use this task to clone objects in the Marketo instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Marketo folder contents.

2. Drag the Clone Objects activity icon onto the orchestration. Select the activity. The Marketo Clone Objects Checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Marketo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the checklist, click Configure.
10. Click Browse to select the object type. The Browse Marketo window is displayed.
11. In the Browse Marketo window, you can select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Marketo REST API activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Clone Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
  - o Mandatory Field: ID
  - o Folder input: Type field of Folder field can accept two values: Folder and Program.
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Marketo Clone Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the Object Name (for example, Email) field in the To Activity pane of Map Inputs, and select Expand Occurrences.

**Parent topic:** [Marketo Activities](#)

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## Specifying the Retry options for Marketo REST API activities

---

Specifying the Retry parameters is one of the tasks to configure a Marketo activity. The Marketo REST API connector uses a single login session for all connections to an Marketo REST API endpoint. If a session expires, the connector automatically establishes a new session. The connector does not count the initial attempt to reacquiring the session as a retry attempt. The connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails. The retriable exceptions include 503 and 504 for this error codes.

## About this task

---

This section contains the procedure for configuring the Retry options for Marketo REST API activities.

## Procedure

---

1. Select the Retry task from the Checklist. The retry pane is displayed.

2. Configure the retry and timeout options for connecting to a Marketo instance, as described in the following table:

Table 1. Retry options

Retry Fields	Description
Wait __ seconds between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the Marketo instance.
Retry __ times before failing.	Specifies the retry count – the maximum number of times the Integration Appliance attempts to establish a connection to the Marketo instance before issuing an error and stopping the processing of the current orchestration job. Note: If you deploy an orchestration that contains the Marketo REST API activity and the Integration Appliance cannot connect to the specified Marketo instance, the Integration Appliance logs the connections errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3, the first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.
Stop processing rest of the records of the batch if failure detected even after the configured no. of retries.	Specifies that if a batch of records is sent as input to an orchestration, and if failure is detected in between, then the remaining records should be processed or not.  For example, if the retry count is set to 3 and a batch of 5 records is sent as input to the orchestration. If, after processing the 1st record of batch, the Integration Appliance cannot connect to the specified Marketo instance even after configured number of retries i.e. 3 retry attempts, then the processing of the remaining 4 records will not be done and execution will be terminated if this option is selected.  For the similar settings, if this option is not selected, then the remaining 4 records would be attempted to be processed.

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## MS Dynamics AX Activities

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- [Services Provided](#)
- [Authentication supported](#)
- [Creation and Deployment of new port on IIS](#)

Microsoft Dynamics AX connector will only consume the services which are created inside Dynamics AX Application and hosted on IIS manager. New Port has to be created using a HTTP adapter.

- [Creating a MS Dynamics AX Endpoint in Cast Iron](#)
- [Using the MS Dynamics AX Invoke service Activity](#)
- [Connector Operations](#)
- [Services](#)
- [Fixed Asset](#)
- [Vendor Group](#)
- [Exchange Rate](#)
- [Price List](#)
- [Sales invoice](#)
- [Inventory transactions](#)
- [Warehouse](#)
- [Vendor payment](#)
- [Inventory on hand](#)

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## Services Provided

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Microsoft Dynamics AX is a multi-language, multi-currency enterprise resource planning (ERP) business solution with comprehensive global business management features for financial, human resources, and operations management as well as additional industry capabilities for retailers, professional service industries, financial service businesses, manufacturers, and public sector organizations..

Following is the overview of the services provided from MS Dynamics AX end.

- Financial Management
- Manufacturing
- Sales and Marketing
- Project Accounting
- Supply Chain Management
- Human Resource Management
- Service Management
- Business Intelligence and Reporting
- Compliance Management
- Collaborative Workspace
- Mobility

Microsoft AX customer base comprises of Large Enterprise and Mid-size business owners

**Parent topic:** [MS Dynamics AX Activities](#)

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## Authentication supported

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The IBM Cast Iron connector for AX 2012 will support NTLM version 1.0 as the authentication type.

In NTLM authentication, users are authenticated against their windows credentials.

While creating an Endpoint for the Cast Iron for MS AX connector, user should provide an already Configured windows authentication to authenticate against the server.

**Parent topic:** [MS Dynamics AX Activities](#)

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## Creation and Deployment of new port on IIS

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Microsoft Dynamics AX connector will only consume the services which are created inside Dynamics AX Application and hosted on IIS manager. New Port has to be created using a HTTP adapter.

### Create Port over HTTPS service

---

Steps for port creation:

1. Open Microsoft Dynamics AX 2012 application, go to System Administration form.
2. Navigate to Service and Application Integration Framework, click on Inbound port.
3. Click on New button.
4. Fill in the below mentioned fields:
  - a. Port Name – enter a unique name for the port.
  - b. Select Adapter as HTTP.
  - c. For the URI
    - i. Click on the drop down. A small window Select Web site will pop-up.
    - ii. Click on the drop down and select the https website.
    - iii. Click OK.
  - d. Click on Configure button (present above the URI drop down).
    - i. In case a message pops-up, click Yes.
    - ii. Click on Bindings under Configuration section.
    - iii. Click on Create New Binding Configuration link under configuration section. Create a New Binding window appears.
    - iv. Click on the option basicHttpBinding from the list.
    - v. Click on OK.
    - vi. Select the new binding created.
    - vii. In the Security tab, set Mode as Transport by choosing the option from Mode's drop down list.
    - viii. In the Security section, set Transport Client credential type as Ntlm from the drop down list.
    - ix. In configuration section, expand the node Services.
    - x. Expand the service node in it to get Endpoints node.
    - xi. Select and right click on the Endpoints node.
    - xii. Click on New Service Endpoint option.
    - xiii. In the new service endpoint configuration, enter valid name.
    - xiv. Select basicHttpBinding created in step (iv).
    - xv. For binding, choose the new binding created in step (v).
    - xvi. Expand the node Advanced under Configuration section.
    - xvii. Expand the sub node Service Behaviors.
    - xviii. Expand the sub node routingServiceBehavior.
    - xix. Select the sub node serviceMetaData.
    - xx. Change the value for HttpsGetEnabled to true from the default value false.
    - xxi. Close the window. A pop-up would appear for saving the changes. Click Yes.
  - e. Under the Service contract customization, click on the Service operations button.
    - i. Select the service operations which you want to invoke.
    - ii. Click on Close.
5. Click on the Activate button in the main menu, to activate the port.
6. After port activation note down WSDL URI. For example,  
<https://<hostname>:443/MicrosoftDynamicsAXAif60/FixedAssetTest/xppservice.svc>
7. Add ?wsdl to the URI and check if you can access this URI on local browser.

### Create Port over HTTP service

---

Steps for port creation:

1. Open Microsoft Dynamics AX 2012 application, go to System Administration form.
2. Navigate to Service and Application Integration Framework, click on Inbound port.
3. Click on New button.
4. Fill in the below mentioned fields:
  - a. Port Name – enter a unique name for the port.
  - b. Select Adapter as HTTP.

- c. For the URI
    - i. Click on the drop down. A small window Select Web site will pop-up.
    - ii. Click on the drop down and select the http website.
    - iii. Click OK.
  - d. Click on Configure button (present above the URI drop down).
    - i. In case a message pops-up, click Yes.
    - ii. Expand Bindings and select basicHttpBinding.
    - iii. On the right-hand panel, go to Security tab. Set TransportClientCredentialType as *Ntlm*.
    - iv. Close the window. A pop-up would appear for saving the changes. Click Yes.
  - e. Under the Service contract customization, click on the Service operations button.
    - i. Select the service operations which you want to invoke.
    - ii. Click on Close.
5. Click on the Activate button in the main menu, to activate the port.
6. After port activation note down WSDL URI. For example,  
<http://<hostname>:8085/AXHttpAppPool/AssetConditionService/xppservice.svc>
7. Add ?wsdl to the URI and check if you can access this URI on local browser.

## Endpoint Details

---

Following will be endpoint details, if you consider WSDL URI as  
<http://<XYZ>:8085/AXHttpAppPool/AssetConditionService/xppservice.svc?wsdl>

- Host Name: XYZ
- Port Number: 8085
- Application Pool: AXHttpAppPool
- Port Name: AssetConditionService

Add authentication details.

Add proxy details, if required.

For HTTPs Service, add details in Security Panel.

Click on Download/Update WSDL button. After downloading the WSDL from Endpoint, You can move forward and invoke service.

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## Creating a MS Dynamics AX Endpoint in Cast Iron

---

MS Dynamics AX 2012 Endpoint contains the information that the connector requires connect to the MS AX 2012 service.

Note: Any changes you make to the MS Dynamics AX Endpoint affects all the orchestrations that use that Endpoint, as the edits are global, not local.

1. In the Cast Iron project tab, right click the Endpoints option and select Create Endpoint
2. Select the MS Dynamics AX option from the drop down. The Endpoint connection panel will be displayed.
3. Fill in the following connection parameters in the Connection Details panel

Field Name	Description
Host Name	Specifies the machine name hosting the AX 2012 service
Port Number	Specifies the PORT no at which the WSDL is available
Application Pool	Specifies the IIS configuration name on the machine hosting MS AX 2012 server
Port Name	Specifies the name of the port created on the AX instance for configuring the WSDL.

- 
1. Click on the Download WSDL. The WSDL is downloaded.
  2. Provide the parameters in the Authentication section and save the Endpoint.

Field Name	Description
Domain	Specifies the domain in which the MS AX 2012 server is Configured
Username	Specifies the username used to connect to the MS AX 2012 service
Password	Specifies the password used to connect to the MS AX 2012 service

The saved Endpoint will be visible under the Endpoints section.

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## Using the MS Dynamics AX Invoke service Activity

---

This section covers the steps to use the MS AX 2012 Endpoint created in the above step.

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS AX 2012 Endpoint to the orchestration and select Invoke Service.
3. The Invoke service Activity is added to the orchestration. Double click the Activity.
4. Click the Configure option in the checklist menu.
5. The respective operations are populated in the WSDL operations section.
6. Click any one operation from the WSDL operation section.
7. Click the Map inputs. The XML schemas generated for that operation are displayed.
8. Create a map between the orchestration variables and the input parameter of the Activity

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the Activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the Activity is displayed as nodes under the response output parameter in the From Activity panel.

The MS AX 2012 connector Invoke Service Activity is Configured.

Similar process has to be executed for Verifying the different WSDL operations for the selected service.

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## Connector Operations

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A service operation is a named set of functionality that is offered by a service. For example, the service operation that creates a new sales order is named SalesSalesOrderService.create. A service can expose multiple service operations. The service operations that a service exposes can include custom service operations. The following table describes some of the common service operations for document services.

Following operations would be performed by MS Dynamics AX 2012 R3 connector:

<b>Op era tion</b>	<b>Description</b>
Create	This operation creates a record for a new item in the database. For example, for the sales order service, this operation creates a new sales order. Usually, this operation responds with an entity key that contains the ID of the new item. The new record that is created uses the field values from the record in the message.  An integration port can be Configured to replace existing documents when this service operation is called.
Delete	This operation deletes a record in the database. Only records in child tables can be deleted
Find	This operation searches for the specified database record.
FindKeys	This operation retrieves a list of entity keys that correspond to the specified search criteria. For example, a request can contain a query for customers whose last name starts with the letter T. The response to this query contains a list of key fields and values that you can use to query again for additional data. For example, you can use the key fields to update each customer record in the list that you retrieved.
Read	This operation retrieves the specified records from the database. The records that must be read are specified by using entity keys. The response contains the data for the records that are returned.
Update	This operation updates a record in the database. Only the fields for whom the values are provided in the message are updated. Values for all other database fields remain unchanged.
get Keys	This operation retrieves the keys for documents based on a document filter
get ChangeKeys	This operation retrieves the keys for documents based on a document filter and a date that is passed in.

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## Services

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- [Advance shipping notice](#)
- [Operations and their Mandatory fields](#)

**Parent topic:** [MS Dynamics AX Activities](#)

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## Advance shipping notice

---

An advance ship notice or advance shipping notice (ASN) is a notification of pending deliveries, similar to a packing list. It is usually sent in an electronic format and is a common EDI document.

ASN enables external systems to receive information about shipments. The ASN document is a delivery confirmation and is used to notify a customer about an expected delivery. The ASN is typically generated based on information that is available when a shipment has left the warehouse, and it can be triggered when you post a packing slip in Microsoft Dynamics AX.

1. Create a new port for "Advanced Shipping Notice" service on IIS.
2. Add new "MS Dynamics AX" Endpoint in Cast Iron studio.
3. Download the "Advance shipping notice" WSDL.
4. Click and drag the Endpoint created to the orchestration.
5. Select the "Invoke" service.
6. Click on the service and then click "Configure".
7. Select a service from the list of services.
8. Provide values for the parameters in the Map inputs page.
9. Right click on the service and select the "Verify Activity" option.
10. Results will be displayed in the Verify tab.

**Parent topic:** [Services](#)

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## Operations and their Mandatory fields

---

Operations	Mandatory Fields	Optional Fields
getKeys	Pagesize	Bookmark
getChangedKeys	Pagesize	Bookmark changedDateTime
Find	DataSourceName FieldName Operator Value1	Value2
findKeys	DataSourceName FieldName Operator Value1	Value2
Read	keyField 1. Field 2. Value	Â

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## Fixed Asset

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**Fixed assets** are items of value, such as buildings, vehicles, land, and equipment, which are owned by an individual or corporation. You can set up and enter acquisition information for fixed asset records, and then manage fixed assets by depreciating them and setting a capitalization threshold to determine depreciation. You can calculate adjustments to the **fixed assets**, and also dispose of them.

- [Operations and their Mandatory fields](#)

Parent topic: [MS Dynamics AX Activities](#)

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## Operations and their Mandatory fields

---

Operations	Mandatory Fields	Optional Fields
getKeys	Pagesize	Bookmark
getChangedKeys	Pagesize	Bookmark changedDateTime
find	DataSourceName FieldName Operator Value1	Value2
findKeys	DataSourceName FieldName Operator Value1	Value2
read	keyField 1. Field 2. Value	Â
create	Â	All

update	keyField 1. Field 2. Value	Rest All
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**Parent topic:** [Fixed Asset](#)

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## Vendor Group

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The Vendor portal is a website where you, as an approved vendor for an organization, can interact with your customer. In the Vendor portal, you can maintain your vendor profile information and process transactions with the customer organization. The tasks that an employee in your organization can complete in the Vendor portal are determined by the user role that is assigned to the employee. User roles are assigned when users are granted access to the website. This service enables synchronization of vendor groups with external systems.

- [Operations and their Mandatory fields](#)

**Parent topic:** [MS Dynamics AX Activities](#)

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## Operations and their Mandatory fields

---

Operations	Mandatory Fields	Optional Fields
delete	keyField 1. Field 2. Value	Â
findKeys	DataSourceName FieldName Operator Value1	Value2
find	DataSourceName FieldName Operator Value1	Value2
read	keyField	Â

	1. Field 2. Value	
update	keyField  1. Field 2. Value	Rest All
getChangedKeys	Pagesize	Bookmark  changedDateTime
create		All
getKeys	Pagesize	Bookmark

**Parent topic:** [Vendor Group](#)

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## Exchange Rate

Exchange Rate service enables you to send your exchange rates to another subsidiary. Different sets of Exchange rates could be segregated into different Exchange Rate types. So, different exchange rate types could be used for different purpose.

Exchange rate types are a grouping that allows different exchange rates for two currencies. These exchange rates are used to convert the transactions like purchase, Sell, etc.

1. Create a new port for "Exchange Rates" service on IIS.
2. Add new "MS Dynamics AX" Endpoint in Cast Iron studio.
3. Download the "Exchange Rate" WSDL.
4. Click and drag the Endpoint created to the orchestration.
5. Select the "Invoke" service.
6. Click on the service and then click "Configure".
7. Select a service from the list of services.
8. Provide values for the parameters in the Map inputs page.
9. Right click on the service and select the "Verify Activity" option.
10. Results will be displayed in the Verify tab.
  - [Operations and their Mandatory fields](#)

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## Operations and their Mandatory fields

Operations	Mandatory Fields	Optional Fields

getKeys	Pagesize	Bookmark
getChangedKeys	Pagesize changedDateTime	Bookmark
Find	DataSourceName FieldName Operator Value1	Value2
findKeys	DataSourceName FieldName Operator Value1	Value2
Read	keyField Field Value	Â
Create	Â	All
Update	keyField Field Value	Rest All

**Parent topic:** [Exchange Rate](#)

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## Price List

---

Price list service sends a compiled price list to a customer. The price list is based on the trade agreements and discounts for the specific customer.

1. Create a new port for "Price List" service on IIS.
2. Add new "MS Dynamics AX" Endpoint in Cast Iron studio.
3. Download the "Price List" WSDL.
4. Click and drag the Endpoint created to the orchestration.
5. Select the "Invoke" service.
6. Click on the service and then click "Configure".
7. Select a service from the list of services.
8. Provide values for the parameters in the Map inputs page.
9. Right click on the service and select the "Verify Activity" option.
10. Results will be displayed in the Verify tab.
  - [Operations and their Mandatory fields](#)

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## Operations and their Mandatory fields

---

Operations	Mandatory Fields	Optional Fields
getKeys	Pagesize	Bookmark
getChangedKeys	Pagesize changedDateTime	Bookmark
Find	DataSourceName FieldName Operator Value1	Value2
findEx	DataSourceName FieldName Operator Value1 Currency CustAccount CustPriceGroup FromDate ToDate	Value2

**Parent topic:** [Price List](#)

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## Sales invoice

---

A sales invoice for a sales order is an invoice that is attached to a sales order. It contains a header and one or more lines for items or services. The sales invoice finishes the sales order, packing slip, and sales invoice cycle. This service sends an invoice to a customer. The invoice is based on the sales order data of the customer.

- [Operations and their Mandatory fields](#)

**Parent topic:** [MS Dynamics AX Activities](#)

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## Operations and their Mandatory fields

---

Operations	Mandatory Fields	Optional Fields
getKeys	Pagesize	Bookmark
getChangedKeys	Pagesize changedDateTime	Bookmark
find	DataSourceName FieldName Operator Value1	Value2
findKeys	DataSourceName FieldName Operator Value1	Value2
read	keyField Field Value	Â

**Parent topic:** [Sales invoice](#)

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## Inventory transactions

---

Inventory transaction is to view all issue transactions and receipt transactions that are associated with the selected product or product master. For product variants that are based on a product master, transactions are created for the product master.

- [Operations and their Mandatory fields](#)

**Parent topic:** [MS Dynamics AX Activities](#)

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## Operations and their Mandatory fields

---

Operations	Mandatory Fields	Optional Fields
getKeys	Pagesize	Bookmark
getChangedKeys	Pagesize changedDateTime	Bookmark
find	DataSourceName FieldName Operator Value1	Value2
findKeys	DataSourceName FieldName Operator Value1	Value2
read	keyField Field Value	Â

**Parent topic:** [Inventory transactions](#)

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## Warehouse

---

Warehousing for AX (WAX), is a [Certified for Microsoft Dynamics \(CfMD\)](#) 2012 module solution that integrates advanced supply chain capabilities seamlessly into your new or existing Microsoft Dynamics AX ERP System. Providing a complete real-time, global view of your business by extending significant functionality around the abilities of Dynamics AX, WAX allows you to accomplish warehousing tasks easily and efficiently.

- [Operations and their Mandatory fields](#)

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## Operations and their Mandatory fields

---

Operations	Mandatory Fields	Optional Fields
getKeys	Pagesize	Bookmark
getChangedKeys	Pagesize changedDateTime	Bookmark
find	DataSourceName FieldName Operator Value1	Value2
findKeys	DataSourceName FieldName Operator Value1	Value2
read	keyField Field Value	A

**Parent topic:** [Warehouse](#)

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## Vendor payment

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Prepayments are a common business practice, with organizations issuing prepayments to vendors for goods or services before those goods or services are fulfilled. To minimize risk, you can track prepayments by defining the prepayment on a purchase order. Vendors can also create a prepayment invoice that is associated with a purchase order. This service makes it easier for organizations to complete, manage and track prepayments to vendors.

- [Operations and their Mandatory fields](#)

**Parent topic:** [MS Dynamics AX Activities](#)

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## Operations and their Mandatory fields

---

Operations	Mandatory Fields	Optional Fields
getKeys	Pagesize	Bookmark
getChangedKeys	Pagesize changedDateTime	Bookmark
find	DataSourceName FieldName Operator Value1	Value2
findKeys	DataSourceName FieldName Operator Value1	Value2
read	keyField Field Value	Â

**Parent topic:** [Vendor payment](#)

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## Inventory on hand

Use this form to obtain detailed information about items with on-hand inventory. On-hand inventory is divided among inventory dimensions. On-hand inventory is generated and updated automatically when transactions are made in the inventory, whether they are forecasted, physical, or financial transactions.

- [Operations and their Mandatory fields](#)

**Parent topic:** [MS Dynamics AX Activities](#)

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## Operations and their Mandatory fields

Operations	Mandatory Fields	Optional Fields
getKeys	Pagesize	Bookmark
getChangedKeys	Pagesize	Bookmark

	changedDateTime	
find	DataSourceName FieldName Operator Value1	Value2
findKeys	DataSourceName FieldName Operator Value1	Value2
read	keyField Field Value	Â

**Parent topic:** [Inventory on hand](#)

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## MS Dynamics GP Activities

- [Services Provided](#)

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## Services Provided

Microsoft Dynamics GP is a multi-language, multi-currency enterprise resource planning (ERP) business solution with comprehensive global business management features for financial, human resources, and operations management as well as additional industry capabilities for retailers, professional Service industries, financial Service businesses, manufacturers, and public sector organizations.

Following is the overview of the Services provided from MS Dynamics GP end.

- Financial Management
- Manufacturing
- Sales and Marketing
- Project Accounting
- Supply Chain Management
- Human Resource Management
- Service Management
- Business Intelligence and Reporting

- Compliance Management
- Collaborative Workspace
- Mobility

Microsoft GP customer base comprises of Large Enterprise and Mid size business owners

- [Microsoft Dynamics 2013 Object Categories](#)
- [Authentication supported](#)
- [Creating a GP Endpoint in Cast Iron](#)
- [Using the MS Dynamics GP Invoke Service Activity](#)
- [Connector Operations](#)
- [Customer](#)
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- [Sales order](#)
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- [Employee](#)
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- [Purchase Order](#)
- [Operations and their Mandatory fields](#)
- [Applicant](#)
- [Operations and their Mandatory fields](#)
- [Cash Receipt](#)
- [Operations and their Mandatory fields](#)
- [Receivables Return](#)
- [Operations and their Mandatory fields](#)
- [Fee](#)
- [Operations and their Mandatory fields](#)

**Parent topic:** [MS Dynamics GP Activities](#)

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## Microsoft Dynamics 2013 Object Categories

The number of objects available is quite large and hence they are divided into three categories. Following are the objects that represent the categories.

- Business Document Objects: These are the objects that represent business documents in Microsoft Dynamics GP. Those are:
  - Customer
  - Vendor
  - CreditLimit
  - Account
  - SalesInvoice
  - Applicant
- Base Objects: This object serves as the basis for each specific type of object. Those are
  - Business Objects
  - Key
  - Criteria
  - Restriction
- Helper Objects: Some objects are included simply to help you work with the Dynamics GP Service. They perform actions such as controlling how the Service is called, or dealing with errors that occur during processing. Those are
  - Context

- Policy
- ExceptionInformation
- ValidationItem

**Parent topic:** [Services Provided](#)

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## Authentication supported

---

The IBM Cast Iron connector for GP 2013 will support NTLM version 1.0 as the authentication type.

In NTLM authentication, users are authenticated against their windows credentials.

Pre-requisites:

While creating an Endpoint for the Cast Iron for MS GP connector, user should provide an already Configured windows authentication to authenticate against the GP server.

**Parent topic:** [Services Provided](#)

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## Creating a GP Endpoint in Cast Iron

---

MS Dynamics GP 2013 Endpoint contains the information the connector requires to connect to the MS GP 2013 Service.

Any changes you make to the MS Dynamics GP Endpoint, affects all the orchestrations that use that Endpoint, as the edits are global, not local.

1. In the Cast Iron project tab, right click the Endpoints option and select Create Endpoint
2. Select the MS Dynamics GP option from the drop down. The Endpoint connection panel will be displayed.
3. Fill in the following connection parameters in the Connection Details panel.
4. Connection Details

Field Name	Description
Host Name	Specifies the machine name hosting the GP 2013 Service
Port Number	Specifies the port at which the GP Service is available
URI	Specifies the base URI for the GP WSDL. BY default, it is for the legacy webService. For custom web Service, the user will have to modify it accordingly.

1. Click on Download WSDL button. The WSDL is downloaded.
2. Provide the parameters in the Authentication section and save the Endpoint.

Field Name	Description
Domain	Specifies the domain in which the MS GP 2013 Service is Configured
Username	Specifies the username used to connect to the MS GP 2013 Service
Password	Specifies the password used to connect to the MS GP 2013 Service

The saved Endpoint will be visible under the Endpoints section.

**Parent topic:** [Services Provided](#)

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## Using the MS Dynamics GP Invoke Service Activity

This section covers the steps to use the MS GP 2013 Endpoint created in the above step.

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS GP Endpoint to the orchestration and select Invoke Service.
3. The Invoke Service Activity is added to the orchestration. Double click the Activity.
4. Click the Configure option in the checklist menu.
5. From the WSDL Operations drop down, select any operation.
6. The operation is selected and respective operation for all objects are populated in the WSDL operations section.
7. Click any one operation from the WSDL operation section.
8. Click the Map inputs. The XML schemas generated for that operation are displayed.
9. Create a map between the orchestration variables and the input parameter of the Activity

Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the Activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the Activity is displayed as nodes under the response output parameter in the From Activity panel.

The MS GP 2013 connector Invoke Service Activity is Configured.

Similar process has to be executed for Verifying the different WSDL operations for the selected standard operations.

**Parent topic:** [Services Provided](#)

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## Connector Operations

Following operations would be performed by Microsoft Dynamics GP 2013 connector:

Op	Description
----	-------------

era tio n	
Create	This method adds new data to Dynamics GP and use objects to specify the type of data being created and the values to be saved.
Get By Key	When objects are retrieved individually, user must specify the unique key value for the object you want to retrieve. The "GetByKey" methods in the Dynamics GP Service are used to retrieve individual objects
Get List	When objects are returned as a list, you will supply a set of criteria that indicate which objects you want to retrieve. The Dynamics GP Service has criteria objects that you will use to specify criteria. The "GetList" methods in the Dynamics GP Service are used to retrieve lists of objects.
Update	The "Update" methods are used to change the values of an existing object's properties. The object is used as a parameter for this operation.
Delete	The "Delete" methods are used to delete the object based on key values provided.
Void	The "void" methods are used to void the object but does not delete the object.

**Parent topic:** [Services Provided](#)

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## Customer

---

A customer within Microsoft Dynamics GP. Differentiated by unique customer key.

1. Add new "MS Dynamics GP" Endpoint in Cast Iron studio.
2. Click and drag the Endpoint created to the orchestration.
3. Select the "Invoke" Service.
4. Click on the Service and then click "Configure".
5. Click on any standard operation listed in the drop-down list.
6. Select the required operation thereafter.
7. Provide values for the parameters in the Map inputs page.
8. Right click on the Service and select the "Verify Activity" option.
9. Results will be displayed in the Verify tab.

**Parent topic:** [Services Provided](#)

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## Operations and their Mandatory fields

---

Operations	Mandatory Fields
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Create	Customer,Context,Policy
GetByKey	Key,Context
GetList	Criteria,Context
Update	Customer,Context,Policy
Delete	Key,Context,Policy

**Parent topic:** [Services Provided](#)

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## Sales order

---

By managing the entire sales process—“from start to finish with pinpoint accuracy, Sales Order Processing in Microsoft Dynamics GP helps you serve top customers more effectively, monitor fulfillment and invoicing more precisely, and streamline processes to minimize shipping costs and labor.

1. Add new “MS Dynamics GP” Endpoint in Cast Iron studio.
2. Click and drag the Endpoint created to the orchestration.
3. Select the “Invoke” Service.
4. Click on the Service and then click “Configure”.
5. Click on any standard operation listed in the drop-down list.
6. Select the required operation thereafter.
7. Provide values for the parameters in the Map inputs page.
8. Right click on the Service and select the “Verify Activity” option.
9. Results will be displayed in the Verify tab.

**Parent topic:** [Services Provided](#)

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## Operations and their Mandatory fields

---

Operations	Mandatory Fields
Create	SalesOrder,Context,Policy
GetByKey	Key,Context
GetList	Criteria,Context
Update	SalesOrder,Context,Policy
Delete	Key,Context,Policy
Void	Key,Context,Policy

**Parent topic:** [Services Provided](#)

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## Employee

---

The new Employee Profile window in Microsoft Dynamics GP allows employees to view and/or update their personal information including Address/Phone Numbers, Emergency Contacts, Dependents, and Position History.

1. Add new â€˜MS Dynamics GPâ€™ Endpoint in Cast Iron studio.
2. Click and drag the Endpoint created to the orchestration.
3. Select the â€˜Invokeâ€™ Service.
4. Click on the Service and then click â€˜Configureâ€™.
5. Click on any standard operation listed in the drop-down list.
6. Select the required operation thereafter.
7. Provide values for the parameters in the Map inputs page.
8. Right click on the Service and select the â€˜Verify Activityâ€™ option.
9. Results will be displayed in the Verify tab.

**Parent topic:** [Services Provided](#)

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## Operations and their Mandatory fields

---

Operations	Mandatory Fields
Create	Employee,Context,Policy
GetByKey	Key,Context
GetList	Criteria,Context
Update	Employee,Context,Policy

**Parent topic:** [Services Provided](#)

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## Vendor

---

A vendor within Microsoft Dynamics GP. Uniquely identified by vendor key.

1. Add new â€˜MS Dynamics GPâ€™ Endpoint in Cast Iron studio.

2. Click and drag the Endpoint created to the orchestration.
3. Select the "Invoke" Service.
4. Click on the Service and then click "Configure".
5. Click on any standard operation listed in the drop-down list.
6. Select the required operation thereafter.
7. Provide values for the parameters in the Map inputs page.
8. Right click on the Service and select the "Verify Activity" option.
9. Results will be displayed in the Verify tab.

**Parent topic:** [Services Provided](#)

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## Operations and their Mandatory fields

---

Operations	Mandatory Fields
Create	Vendor,Context,Policy
GetByKey	Key,Context
GetList	Criteria,Context
Update	Vendor,Context,Policy

**Parent topic:** [Services Provided](#)

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## Skill

---

The common properties for a job skill in Microsoft Dynamics GP.

1. Add new "MS Dynamics GP" Endpoint in Cast Iron studio.
2. Click and drag the Endpoint created to the orchestration.
3. Select the "Invoke" Service.
4. Click on the Service and then click "Configure".
5. Click on any standard operation listed in the drop-down list.
6. Select the required operation thereafter.
7. Provide values for the parameters in the Map inputs page.
8. Right click on the Service and select the "Verify Activity" option.
9. Results will be displayed in the Verify tab.

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## Operations and their Mandatory fields

---

Operations	Mandatory Fields
Create	BusinessObject,Context,Policy
GetByKey	Key,Context
GetList	Criteria,Context
Update	BusinessObject,Context,Policy
Delete	Key,Context,Policy

**Parent topic:** [Services Provided](#)

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## Purchase Order

---

You can use Purchase Order Processing to enter standard, drop-ship, and blanket purchase orders for items. When necessary, you can change the status of a purchase order or the individual line items on the purchase order.

1. Add new "MS Dynamics GP" Endpoint in Cast Iron studio.
2. Click and drag the Endpoint created to the orchestration.
3. Select the "Invoke" Service.
4. Click on the Service and then click "Configure".
5. Click on any standard operation listed in the drop-down list.
6. Select the required operation thereafter.
7. Provide values for the parameters in the Map inputs page.
8. Right click on the Service and select the "Verify Activity" option.
9. Results will be displayed in the Verify tab.

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## Operations and their Mandatory fields

---

Operations	Mandatory Fields
Create	PurchaseOrder,Context,Policy

GetByKey	Key,Context
GetList	Criteria,Context
Update	PurchaseOrder,Context,Policy
Delete	Key,Context,Policy
Void	Key,Context,Policy

**Parent topic:** [Services Provided](#)

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## Applicant

Identify top applicants and help maintain a fair hiring process with customized interview forms and templates for acknowledgement, offer, and rejection letters. Successful candidate information that imports into employee records with a single step, eliminating the need to reenter the information.

1. Add new "MS Dynamics GP" Endpoint in Cast Iron studio.
2. Click and drag the Endpoint created to the orchestration.
3. Select the "Invoke" Service.
4. Click on the Service and then click "Configure".
5. Click on any standard operation listed in the drop-down list.
6. Select the required operation thereafter.
7. Provide values for the parameters in the Map inputs page.
8. Right click on the Service and select the "Verify Activity" option.
9. Results will be displayed in the Verify tab.

**Parent topic:** [Services Provided](#)

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## Operations and their Mandatory fields

Operations	Mandatory Fields
Create	BusinessObject,Context,Policy
GetByKey	Key,Context
GetList	Criteria,Context
Update	BusinessObject,Context,Policy
Delete	BusinessObjectKey,Context,Policy

**Parent topic:** [Services Provided](#)

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## Cash Receipt

---

Defines the receipt of money from a customer in Microsoft Dynamics GP.

1. Add new "MS Dynamics GP" Endpoint in Cast Iron studio.
2. Click and drag the Endpoint created to the orchestration.
3. Select the "Invoke" Service.
4. Click on the Service and then click "Configure".
5. Click on any standard operation listed in the drop-down list.
6. Select the required operation thereafter.
7. Provide values for the parameters in the Map inputs page.
8. Right click on the Service and select the "Verify Activity" option.
9. Results will be displayed in the Verify tab.

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## Operations and their Mandatory fields

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Operations	Mandatory Fields
Create	CashReceipt,Context,Policy
GetByKey	Key,Context
GetList	Criteria,Context
Void	Key,Context,Policy

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## Receivables Return

---

Receivable return easily record and track checks returned due to insufficient funds, providing efficient and accurate management of the affected accounts. Marking a check "NSF" displays the option to post an NSF charge to that customer's account.

1. Add new "MS Dynamics GP" Endpoint in Cast Iron studio.

2. Click and drag the Endpoint created to the orchestration.
3. Select the "Invoke" Service.
4. Click on the Service and then click "Configure".
5. Click on any standard operation listed in the drop-down list.
6. Select the required operation thereafter.
7. Provide values for the parameters in the Map inputs page.
8. Right click on the Service and select the "Verify Activity" option.
9. Results will be displayed in the Verify tab.

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## Operations and their Mandatory fields

---

Operations	Mandatory Fields
Create	ReceivablesReturn,Context,Policy
GetByKey	Key,Context
Void	Key,Context,Policy

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## Fee

---

Defines a fee item in the Inventory module in Microsoft Dynamic GP.

1. Add new "MS Dynamics GP" Endpoint in Cast Iron studio.
2. Click and drag the Endpoint created to the orchestration.
3. Select the "Invoke" Service.
4. Click on the Service and then click "Configure".
5. Click on any standard operation listed in the drop-down list.
6. Select the required operation thereafter.
7. Provide values for the parameters in the Map inputs page.
8. Right click on the Service and select the "Verify Activity" option.
9. Results will be displayed in the Verify tab.

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## Operations and their Mandatory fields

---

Operations	Mandatory Fields
Create	Fee,Context,Policy
GetByKey	Key,Context
GetList	Criteria,Context

The mandatory fields listed in the tables are complex nodes and hence all the fields that they contain are not mandatory.

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## MS Dynamics NAV Activities

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## Services Provided

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Microsoft Dynamics NAV 2013 supports all typical enterprise resource planning (ERP) activities. Most ERP functionality in Microsoft Dynamics NAV 2013 relates to the business tasks that users perform in different company departments, such as the Finance, Sales, and Warehouse departments.

The departments supported by Microsoft Dynamics NAV 2013 are:

- Finance
- Business Intelligence
- Marketing
- Sales
- Design and Engineering
  - Operations and Planning
- Purchasing
- Receiving
- Warehouse activities
- Production
- Shipping
- Service
- Resource Planning

- Jobs
- Human Resources
- [Microsoft Dynamics NAV 2013 Objects](#)
- [Authentication supported](#)
- [How to: Create a New Company](#)
- [To create a new company](#)
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- [Using the MS Dynamics NAV Invoke Service Activity](#)
- [Connector Operations](#)
- [Currencies](#)
- [Customer Card](#)
- [Finance Charge Terms](#)
- [Languages](#)
- [Payment methods](#)
- [Rounding Method](#)
- [User Setup](#)
- [Location List](#)
- [Printer Selections](#)
- [Shipment Methods](#)

**Parent topic:** [MS Dynamics NAV Activities](#)

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## Microsoft Dynamics NAV 2013 Objects

---

Following are the standard application objects for Microsoft Dynamics NAV 2013. These are available in the Object Designer.

Tables	Tables You use tables to store data. For example, a business application may contain a customer table that stores information about each customer, such as, name, address, telephone number, and contact person.
Reports	You use reports to present data. You use filters and sorting to select the data that you want to present in a report
XMLports	You use XMLports to import and export data in .xml, .txt, or .csv format
Codeunits	A codeunit contains user-defined functions that are written in C/AL code. You can use the functions in a codeunit from the other objects in your application.
Menu Suites	A MenuSuite object contains the set of menus that are displayed in the Navigation pane.
Pages	Pages display data from the database and allow users to enter new data into the database
Queries	A query specifies a set of data from the database.

Out of these nine objects, three are exposed in form of web Services - pages, codeunits and queries.

Note: The MS Dynamics NAV 2013 connector will support Pages and Codeunits as webServices types.

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## Authentication supported

---

The IBM Cast Iron connector for NAV 2013 will support NTLM version 1.0 as the authentication type.

In NTLM authentication, users are authenticated against their windows credentials.

Pre-requisites:

While creating an Endpoint for the Cast Iron for MS NAV connector, user should provide an already Configured windows authentication to authenticate against the NAV Service.

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## How to: Create a New Company

---

To use RapidStart Services for Microsoft Dynamics NAV, you first create a new company for which you want to perform a Microsoft Dynamics NAV implementation. When you create a new company, the standard Microsoft Dynamics NAV tables and pages are created, but there is no data in them.

In addition, you can apply specific setup data to your company after you initialize it. The information is provided in a configuration package, a .rapidstart file, which delivers content in a compressed format.

Use the following procedure to create a new company, and use the BASICCONFIG package as part of the process.

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## To create a new company

---

1. In the Microsoft Dynamics NAV Development Environment, create a new company. On the **File** menu, choose **Company**, and then choose **New**.

2. Name the new company and then choose the **OK** button.

3. Switch to the Microsoft Dynamics NAV Windows client and initialize the company you have just created.

You can now import the configuration package that you exported from CRONUS. After you create a new company, some tables are automatically filled in, even if no company template is applied.

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## Creating a NAV Endpoint in Cast Iron

---

MS Dynamics NV 2013 Endpoint contains the information the connector requires to connect to the MS NAV 2013 Service.

Any changes you make to the MS Dynamics NAV Endpoint affects all the orchestrations that use that Endpoint, as the edits are global, not local.

1. In the Cast Iron project tab, right click the Endpoints option and select Create Endpoint
2. Select the MS Dynamics NAV option from the drop down. The Endpoint connection panel will be displayed.
3. Fill in the following connection parameters in the Connection Details panel

Field Name	Description
Host Name	Specifies the machine name hosting the NAV 2013 Service.
Port Number	Specifies the PORT no at which the WSDL is available
Application Pool	Specifies the IIS configuration name on the machine hosting NAV 2013 Service.
Company Name	Specifies the BD name in which the standard NAV pages and tables are stored.

1. Provide the parameters in the Authentication section and save the Endpoint.

Field Name	Description
Domain	Specifies the domain in which the MS NAV 2013 Service is Configured
Username	Specifies the username used to connect to the MS NAV 2013 Service
Password	Specifies the password used to connect to the MS NAV 2013 Service

The saved Endpoint will be visible under the Endpoints section.

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## Configuring MS Dynamics NAV Endpoint

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- Refresh button Functionality

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## Refresh button Functionality

---

1. Delete/add some WSDLs.
2. Right click the Orchestrations section and select new orchestration.
3. Drag the newly created MS NAV Endpoint to the orchestration and select Invoke Service.
4. The Invoke Service Activity is added to the orchestration. Double click the Activity.
5. Click the Configure option in the checklist menu.
6. Click on the "Refresh" button.
7. The list of Services gets updated accordingly.

**Parent topic:** [Configuring MS Dynamics NAV Endpoint](#)

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## Update WSDL button functionality

---

1. Update a WSDL.
2. Right click the Orchestrations section and select new orchestration.
3. Drag the newly created MS NAV Endpoint to the orchestration and select Invoke Service.
4. The Invoke Service Activity is added to the orchestration. Double click the Activity.
5. Click the Configure option in the checklist menu.
6. Click on the "Update WSDL" button to update it in the Cast Iron studio.

**Parent topic:** [Services Provided](#)

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## Using the MS Dynamics NAV Invoke Service Activity

---

This section covers the steps to use the MS NAV 2013 Endpoint created in the above step.

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS NAV Endpoint to the orchestration and select Invoke Service.
3. The Invoke Service Activity is added to the orchestration. Double click the Activity.
4. Click the Configure option in the checklist menu.
5. From the Select Service drop down, select any Service.
6. The Service is selected and their respective operations are populated in the WSDL operations section.
7. Click any one operation from the WSDL operation section.
8. Click the Map inputs. The XML schemas generated for that operation are displayed.
9. Create a map between the orchestration variables and the input parameter of the Activity.

Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the Activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the Activity is displayed as nodes under the response output parameter in the From Activity panel.

The MS NAV 2013 connector Invoke Service Activity is Configured.

Similar process has to be executed for Verifying the different WSDL operations for the selected Service.

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## Connector Operations

---

Following operations would be performed by Microsoft Dynamics NAV 2013 connector

Operation	Description
Create	This operation creates a single record. For example, for the currency, this operation creates a new currency. The supplied record object is overwritten with the version that is created by the page.
CreateMultiple	This operation creates a set of records. The supplied record object is overwritten with the version that is created by page.
Read	This operation reads a single record.
ReadMultiple	This operation reads a filtered set of records. This operation returns an array of entities. The ReadMultiple operation allows the consumer of a Web Service to specify the number of records to be returned at one time. This can reduce load on the server.
Update	This operation updates a single record. The updated record is passed as a reference and is updated with the latest version.
UpdateMultiple	This operation updates a set of records. The updated array of records is passed as a reference and is updated with the latest version.
IsUpdated	This operation checks if an object has been updated since the key was obtained. This operation returns <b>true</b> if the object has been updated by any user; otherwise, <b>false</b> . Concurrency management will prevent a record being changed if it has been subsequently updated. This check will proactively prevent that failure.
Delete<part>	This operation deletes records on a subpage of the current page. This operation is exposed only by pages that have subpages, which are pages that have parts of type page

- [Services](#)

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## Services

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## Currencies

---

Specifies how you can invoice in foreign currencies, post in foreign currencies, record exchange rate differences, and generate statements in foreign currencies. You can post to a customer or vendor in an unlimited number of currencies. The resulting ledger entries will show the currency of each transaction.

1. Create a new company for "Currencies" Service.
2. Add new "MS Dynamics NAV" Endpoint in Cast Iron studio.
3. Enter valid values in the Test Connection screen and click 'Test Connection'.
4. Click and drag the Endpoint created to the orchestration.
5. Select the "invoke" Service.
6. Click on the Service and then click "Configure".
7. Select a Service from the list of Services.
8. Select WSDL operation from the list.
9. Provide values for the parameters in the Map inputs page.
10. Right click on the Service and select the "Verify Activity" option.
11. Results will be displayed in the Verify tab.

- [Services and their Mandatory fields](#)

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## Services and their Mandatory fields

---

Services	Mandatory Fields
Read	Code
Read by RecId	RecId
ReadMultiple	Field criteria
IsUpdated	Key
getRecIdFromKey	Key
Create	Code
CreateMultiple	Code
UpdateMultiple	Key
Update	Key
Delete	Key

**Parent topic:** [Currencies](#)

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## Customer Card

The Customer Card is used to store customer information. User can view the customer details like name, address, discount possibilities etc. for each customer in a card page.

1. Create a new company for “Customer Card” Service.
  2. Add new “MS Dynamics NAV” Endpoint in Cast Iron studio.
  3. Enter valid values in the Test Connection screen and click Test Connection.
  4. Click and drag the Endpoint created to the orchestration.
  5. Select the Invoke Service.
  6. Click on the Service and then click Configure.
  7. Select a Service from the list of Services.
  8. Select WSDL operation from the list.
  9. Provide values for the parameters in the Map inputs page.
  10. Right click on the Service and select the Verify Activity option.
  11. Results will be displayed in the Verify tab.
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## Services and their Mandatory fields

Services	Mandatory Fields
Read	No.
Read by RecId	RecId
ReadMultiple	Field Criteria
IsUpdated	Key
getRecIdFromKey	Key
Create	No.
CreateMultiple	No.
UpdateMultiple	Key
Update	Key
Delete	Key

**Parent topic:** [Customer Card](#)

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## Finance Charge Terms

Defines the conditions for finance charge calculations. You must set up a code representing each finance charge calculation. Then you can enter this code in the Fin. Charge Terms Code field on customer cards. Afterward, when you calculate finance charges on open entries, the program will use the information represented by the code. You can also register finance charge terms codes on vendor cards.

1. Create a new company for “Finance Charge Terms” Service.
  2. Add new “MS Dynamics NAV” Endpoint in Cast Iron studio.
  3. Enter valid values in the Test Connection screen and click ‘Test Connection’.
  4. Click and drag the Endpoint created to the orchestration.
  5. Select the “invoke” Service.
  6. Click on the Service and then click “Configure”.
  7. Select a Service from the list of Services.
  8. Select WSDL operation from the list.
  9. Provide values for the parameters in the Map inputs page.
  10. Right click on the Service and select the “Verify Activity” option.
  11. Results will be displayed in the Verify tab.
- [Services and their Mandatory fields](#)

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## Services and their Mandatory fields

---

Services	Mandatory Fields
Read	Code
Read by RecId	RecId
ReadMultiple	Field Criteria
IsUpdated	Key
getRecIdFromKey	Key
Create	Code
CreateMultiple	Code
UpdateMultiple	Key
Update	Key
Delete	Key

**Parent topic:** [Finance Charge Terms](#)

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## Languages

---

Specifies if you have customers or vendors in other countries/regions and you want to print item names or descriptions in the appropriate language. This is possible if you set up language codes in the Language table.

1. Create a new company for "Languages" Service.
2. Add new "MS Dynamics NAV" Endpoint in Cast Iron studio.
3. Enter valid values in the Test Connection screen and click 'Test Connection'.
4. Click and drag the Endpoint created to the orchestration.
5. Select the "invoke" Service.
6. Click on the Service and then click "Configure".
7. Select a Service from the list of Services.
8. Select WSDL operation from the list.
9. Provide values for the parameters in the Map inputs page.
10. Right click on the Service and select the "Verify Activity" option.

11. Results will be displayed in the Verify tab.

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## Services and their Mandatory fields

---

Services	Mandatory Fields
Read	Code
Read by RecId	RecId
ReadMultiple	Field Criteria
IsUpdated	Key
getRecIdFromKey	Key
Create	Code
CreateMultiple	Code
UpdateMultiple	Key
Update	Key
Delete	Key

**Parent topic:** [Languages](#)

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## Payment methods

---

Assigns a code to each payment method. You can set up an unlimited number of payment methods. After you have set up the methods you can enter one of the codes in the Payment Method Code field on each of the customer and vendor cards.

1. Create a new company for "Payment methods" Service.
2. Add new "MS Dynamics NAV" Endpoint in Cast Iron studio.
3. Enter valid values in the Test Connection screen and click 'Test Connection'.
4. Click and drag the Endpoint created to the orchestration.
5. Select the "invoke" Service.
6. Click on the Service and then click "Configure".

7. Select a Service from the list of Services.
8. Select WSDL operation from the list.
9. Provide values for the parameters in the Map inputs page.
10. Right click on the Service and select the "Verify Activity" option.
11. Results will be displayed in the Verify tab.
  - [Services and their Mandatory fields](#)

**Parent topic:** [Services Provided](#)

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## Services and their Mandatory fields

---

Services	Mandatory Fields
Read	Code
Read by RecId	RecId
ReadMultiple	Field Criteria
IsUpdated	Key
getRecIdFromKey	Key
Create	Code
CreateMultiple	Code
UpdateMultiple	Key
Update	Key
Delete	Key

**Parent topic:** [Payment methods](#)

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## Rounding Method

---

This Service specifies the rounding rules to be used if you use Microsoft Dynamics NAV to adjust or suggest item prices or standard cost changes.

1. Create a new company for "Rounding Methods" Service.
2. Add new "MS Dynamics NAV" Endpoint in Cast Iron studio.

3. Enter valid values in the Test Connection screen and click 'Test Connection'.
4. Click and drag the Endpoint created to the orchestration.
5. Select the 'invoke' Service.
6. Click on the Service and then click 'Configure'.
7. Select a Service from the list of Services.
8. Select WSDL operation from the list.
9. Provide values for the parameters in the Map inputs page.
10. Right click on the Service and select the 'Verify Activity' option.
11. Results will be displayed in the Verify tab.

- [Services and their Mandatory fields](#)

**Parent topic:** [Services Provided](#)

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## Services and their Mandatory fields

---

Services	Mandatory Fields
Read	Code Min_Amount
ReadbyRecId	RecId
ReadMultiple	Field Criteria
IsUpdated	Key
getRecIdFromKey	Key
Create	Code
CreateMultiple	Code
UpdateMultiple	Key
Update	Key
Delete	Key

**Parent topic:** [Rounding Method](#)

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## User Setup

---

Microsoft Dynamics NAV has a security program to ensure that only the correct people have access to the companies in the program. With user IDs and passwords, you can control who can enter the program. You can improve this security by using roles to restrict an individual user's permissions—for example, to read information, create new information, or modify existing information.

1. Create a new company for "User Setup" Service.
2. Add new "MS Dynamics NAV" Endpoint in Cast Iron studio.
3. Enter valid values in the Test Connection screen and click 'Test Connection'.
4. Click and drag the Endpoint created to the orchestration.
5. Select the "invoke" Service.
6. Click on the Service and then click "Configure".
7. Select a Service from the list of Services.
8. Select WSDL operation from the list.
9. Provide values for the parameters in the Map inputs page.
10. Right click on the Service and select the "Verify Activity" option.
11. Results will be displayed in the Verify tab.

- [Services and their Mandatory fields](#)

**Parent topic:** [Services Provided](#)

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## Services and their Mandatory fields

---

Services	Mandatory Fields
Read	User_ID
Read by RecId	RecId
ReadMultiple	Field Criteria
IsUpdated	Key
getRecIdFromKey	Key
Create	User_ID
CreateMultiple	User_ID
UpdateMultiple	Key
Update	Key
Delete	Key

**Parent topic:** [User Setup](#)

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## Location List

---

This Service specifies information about your locations, such as example, warehouses, and distribution centers. You can keep track of items in different locations using the Location table. Each location has a name as well as a code representing the name. You use the table to assign a code to a location name. You can then enter the code in location code fields elsewhere in the program, for example, on purchase or sales document lines. This will then record the transactions for the location when you post.

1. Create a new company for "Location List" Service.
2. Add new "MS Dynamics NAV" Endpoint in Cast Iron studio.
3. Enter valid values in the Test Connection screen and click 'Test Connection'.
4. Click and drag the Endpoint created to the orchestration.
5. Select the "Invoke" Service.
6. Click on the Service and then click "Configure".
7. Select a Service from the list of Services.
8. Select WSDL operation from the list.
9. Provide values for the parameters in the Map inputs page.
10. Right click on the Service and select the "Verify Activity" option.
11. Results will be displayed in the Verify tab.
  - [Services and their Mandatory fields](#)

**Parent topic:** [Services Provided](#)

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## Services and their Mandatory fields

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Services	Mandatory Fields
Read	Code
Read by RecId	RecId
ReadMultiple	Field Criteria
IsUpdated	Key
getRecIdFromKey	Key

**Parent topic:** [Location List](#)

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## Printer Selections

---

Specifies the printer to you use when you print invoices, credit memos, and so on. You use the Printer Selection table to control this. In this table you can assign certain printers to certain users and/or reports so that the Invoice report, for example, is always printed on printer X. You can also specify that only user Y will always print credit memos on printer X, for example.

1. Create a new company for "Printer Selections" Service.
2. Add new "MS Dynamics NAV" Endpoint in Cast Iron studio.
3. Enter valid values in the Test Connection screen and click 'Test Connection'.
4. Click and drag the Endpoint created to the orchestration.
5. Select the "invoke" Service.
6. Click on the Service and then click "Configure".
7. Select a Service from the list of Services.
8. Select WSDL operation from the list.
9. Provide values for the parameters in the Map inputs page.
10. Right click on the Service and select the "Verify Activity" option.
11. Results will be displayed in the Verify tab.

- [Services and their Mandatory fields](#)

**Parent topic:** [Services Provided](#)

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## Services and their Mandatory fields

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Services	Mandatory Fields
Read	User_ID Report_ID
Read by RecId	RecId
ReadMultiple	Field Criteria
IsUpdated	Key
getRecIdFromKey	Key
Create	User_ID
CreateMultiple	User_ID
UpdateMultiple	Key
Update	Key

[Delete](#)[Key](#)**Parent topic:** [Printer Selections](#)[Feedback | Notices](#)

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## Shipment Methods

Specifies descriptions for each shipment method in different languages. When you enter the shipment method on quotes, orders, invoices, and credit memos, the shipment method code and the language code on the document is used to determine which shipment method description to use.

1. Create a new company for "Shipment Methods" Service.
2. Add new "MS Dynamics NAV" Endpoint in Cast Iron studio.
3. Enter valid values in the Test Connection screen and click 'Test Connection'.
4. Click and drag the Endpoint created to the orchestration.
5. Select the "invoke" Service.
6. Click on the Service and then click "Configure".
7. Select a Service from the list of Services.
8. Select WSDL operation from the list.
9. Provide values for the parameters in the Map inputs page.
10. Right click on the Service and select the "Verify Activity" option.
11. Results will be displayed in the Verify tab.

- [Services and their Mandatory fields](#)

**Parent topic:** [Services Provided](#)[Feedback | Notices](#)

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## Services and their Mandatory fields

Services	Mandatory Fields
Read	code
ReadbyRecId	RecId
ReadMultiple	Field
	Criteria

IsUpdated	Key
getRecIdFromKey	Key
Create	code
CreateMultiple	code
UpdateMultiple	Key
Update	Key
Delete	Key

**Parent topic:** [Shipment Methods](#)

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## MS Office 365 Activities

- [Creating or editing an endpoint for MS Office 365 activity](#)
- [Using the MS Office 365 Send Mails activity](#)
- [Using the MS Office 365 Get Mails activity](#)
- [Using the MS Office 365 Delete Mails activity](#)  
Use the Delete Mails activity to delete a mail in MS Office 365. Deleted Contents might not be recoverable.
- [Using the MS Office 365 Move Mails activity](#)  
Use the Move Mails activity to move a mail to another folder or copy a mail to another folder in MS Office 365.
- [Using the MS Office 365 Respond Mail activity](#)
- [Using the MS Office 365 Update Mails activity](#)  
Use the Update Mails activity to change writable properties on a draft or existing message in MS Office 365. Only the properties that you specify are changed.
- [Using the MS Office 365 Create Draft Mails activity](#)
- [Using the MS Office 365 Get Folders activity](#)
- [Using the MS Office 365 Create Folders activity](#)
- [Using the MS Office 365 Update Folders activity](#)
- [Using the MS Office 365 Delete Folders activity](#)
- [Using the MS Office 365 Move Folders activity](#)
- [Using the MS Office 365 Create Contacts activity](#)
- [Using the MS Office 365 Update Contacts activity](#)
- [Using the MS Office 365 Get Contacts activity](#)
- [Using the MS Office 365 Delete Contacts activity](#)
- [Using the MS Office 365 Get Contact Folders activity](#)
- [Using the MS Office 365 Create Calendars activity](#)
- [Using the MS Office 365 Update Calendars activity](#)
- [Using the MS Office 365 Get Calendars activity](#)
- [Using the MS Office 365 Delete Calendars activity](#)
- [Using the MS Office 365 Create Calendar Groups activity](#)
- [Using the MS Office 365 Update Calendar Groups activity](#)
- [Using the MS Office 365 Get Calendar Groups activity](#)
- [Using the MS Office 365 Delete Calendar Groups activity](#)
- [Using the MS Office 365 Create Events activity](#)
- [Using the MS Office 365 Update Events activity](#)
- [Using the MS Office 365 Get Events activity](#)
- [Using the MS Office 365 Delete Events activity](#)

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## Creating or editing an endpoint for MS Office 365 activity

---

Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to a MS Office 365 server. MS Office 365 uses OAuth 2.0 authentication mechanism to authenticate and authorize users to perform operations.

Selecting or editing a MS Office 365 endpoint

To select or edit a MS Office 365 endpoint:

1. In the **Create Endpoint** or **Edit Endpoint** pane, configure the MS Office 365 endpoint as described in the following table.

Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.

2. Click **Test Connection** to confirm that the connection details are valid and you are able to connect to the MS Office 365 successfully.

3. Click **OK**.

*Table: Connection properties*

Field Name	Description
OAuth Access Token	OAuth access token generated from Azure AD
OAuth Refresh Token	OAuth refresh token generated from Azure AD while generating OAuth Access token
Application Client ID	Application client ID generated from the server where the application is hosted
Application Client Secret	Application client secret generated from the server where the application is hosted

**Note:** To generate the access token, refer to the MS Office 365 documentation relating to "OAuth2 Authentication Support in MS Office 365 REST API".

**Parent topic:** [MS Office 365 Activities](#)

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## Using the MS Office 365 Send Mails activity

---

Use the Send Mails activity to send a mail to recipients in MS Office 365.

Use this task to send a mail to recipients in MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Send Mails activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Send Mails** activity icon onto the orchestration. The MS Office 365 Send Mails checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.

5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Send Mails activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has the following mandatory field:

- **InputType:** This has following two values:
  - Select **ON\_THE\_FLY** to send a mail without getting saved in **Drafts** folder.
  - Select **DRAFT** to send the mail and save it in **Drafts** folder.

**Optional Fields:** The activity has following optional fields:

- **SaveToSentItems:** Set it True if the sent mail has to be saved in the **Sent Items** folder.
- **message\_id:** ID of the mail.
- **Message** parameter having following fields:
  - Subject of the draft mail
- **Body** parameter having following fields:
  - **Content:** Add contents of the text as per the content type in base-64 format.
  - **Content Type:** Having text and HTML values.
- **Importance** parameter having following fields in which user can set the importance level:
  - Low
  - Normal
  - High
- **ToRecipients** parameter having **EmailAddress** field which has following fields:
  - **Address:** email address of recipients in **To** field.
  - **Name:** name of the recipient.
- **CcRecipients** parameter having **EmailAddress** field which has following fields:
  - **Address:** email address of recipients in **Cc** field.
  - **Name:** name of the recipient.
- **BccRecipients** parameter having **EmailAddress** field which has following fields:
  - **Address:** email address of recipients in **Bcc** field.
  - **Name:** name of the recipient.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Send Mails activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

**Parent topic:** [MS Office 365 Activities](#)

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# Using the MS Office 365 Get Mails activity

---

Use the Get Mails activity to retrieve all the mails or a single mail along with their attachments if required in MS Office 365.

Use this task to retrieve all the mails or a single mail along with their attachments if required from the default folder which is inbox or the specific folder ID provided in MS Office 365 instance. The call to this activity is a synchronous call, where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Get Mails activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Get Mails** activity icon onto the orchestration. The MS Office 365 Get Mails checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Get Mails activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **InputType:** This has following two values:
  - Select **ALL\_MESSAGES** to fetch all the messages
  - Select **BY\_MESSAGE\_ID** to fetch specific message

**Optional Fields:** The activity has following optional fields:

- **folder\_id:** This is used to set the ID of the specific folder to fetch the messages from MS Office 365.
- **message\_id:** ID of the specific message to be fetched.
- **include\_attachments:** Set it True if attachments are also required to be fetched along with the messages.
- **Customize:** This is used to set the Odata query parameters in following fields:
  - **Top**
  - **Skip**
  - **FilterRequests**
  - **SelectProperties**
  - **Orderby**

Note:

- Refer â€˜ODATA Query Parametersâ€™ document for filtering, sorting, and paging parameters.
- Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Get Mails activity.

Note: User can add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

**Parent topic:** [MS Office 365 Activities](#)

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## Using the MS Office 365 Delete Mails activity

---

Use the Delete Mails activity to delete a mail in MS Office 365. Deleted Contents might not be recoverable.

Use this task to delete a mail in MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Delete Mails activity:

1. In an active orchestration, open the Activities tab and expand the MS Office 365 folder contents.
2. Drag the Delete Mails activity icon onto the orchestration. The MS Office 365 Delete Mails checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select Map Inputs in the checklist. The XML schemas generated from the selected object of the Delete Mails activity are displayed as nodes under the request input parameter in the To Activity panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following the mandatory field:

- message\_Id: ID of the message to be deleted.

**Optional Fields:** The activity does not have any optional fields.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select Map Outputs in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Delete Mails activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right-click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type are supported.

**Parent topic:** [MS Office 365 Activities](#)

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## Using the MS Office 365 Move Mails activity

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Use the Move Mails activity to move a mail to another folder or copy a mail to another folder in MS Office 365.

Use this task to move a mail to another folder or copy a mail to another folder in MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Move Mails activity:

1. In an active orchestration, open the Activities tab and expand the MS Office 365 folder contents.
2. Drag the Move Mails activity icon onto the orchestration. The MS Office 365 Move Mails checklist is displayed.
3. In the checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select Map Inputs in the checklist. The XML schemas generated from the selected object of the Move Mails activity are displayed as nodes under the request input parameter in the To Activity panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- InputType: This has following two values:
  - Select MOVE to move the mail to destination.
  - Select COPY to save a copy of the mail in the destination.

**Optional Fields:** The activity has following optional fields:

- message\_Id: The ID of the message which has to be moved or copied.
- destination\_id: Destination folder ID where the folder to be moved or copied has to be placed.

Note: Values must be provided at run time for any mandatory element of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select Map Outputs in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Move Mails activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right-click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type are supported.

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## Using the MS Office 365 Respond Mail activity

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Use the Respond Mail activity to reply to a sender of mail or forward a mail to recipients in MS Office 365. The mail gets saved in **Sent Items** folder.

Use this task to reply to a sender of mail or forward a mail to recipients in MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Respond Mail activity:

1. In an active orchestration, open the **Activities** tab and expand the MS Office 365 folder contents.
2. Drag the **Respond Mail** activity icon onto the orchestration. The MS Office 365 Respond Mail checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Respond Mail activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **InputType:** This has following three values:
  - Select **REPLY** to reply to a mail.
  - Select **REPLYALL** to reply to all the recipients of a mail.
  - Select **FORWARD** to forward the mail to specified recipients.
- **message\_id:** ID of the message for which reply has to be sent or to be forwarded.
- **Comment:** Comment to be included along with reply or when forwarded.

**Optional Fields:** The activity has following optional fields:

- **ToRecipients** parameter having **EmailAddress** field which has following fields:
  - **Address:** email address of recipients in **To** field.
  - **Name:** name of the recipient.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Respond Mail activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

**Parent topic:** [MS Office 365 Activities](#)

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## Using the MS Office 365 Update Mails activity

Use the Update Mails activity to change writable properties on a draft or existing message in MS Office 365. Only the properties that you specify are changed.

Use this task to change writable properties on a draft or existing message in MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Update Mails activity:

1. In an active orchestration, open the Activities tab and expand the MS Office 365 folder contents.

2. Drag the Update Mails activity icon onto the orchestration. The MS Office 365 Update Mails checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the Project Explorer dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Update Mails activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has the following mandatory field:

- **message\_id**: ID of the message which has to be updated.

**Optional Fields:** The activity has the following optional field:

- **mail**: Specify properties of the mail which is to be updated.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Update Mails activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of **Map Inputs**, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

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## Using the MS Office 365 Create Draft Mails activity

Use the Create Draft Mails activity to create draft mails in MS Office 365.

Use this task to create draft mails in the MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Create Draft Mails activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Create Draft Mails** activity icon onto the orchestration. The MS Office 365 Create Draft Mails checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Create Draft Mails activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **InputType:** This has following four values:
  - Select **NEW** to create new draft mail.
  - Select **REPLY** to save the reply mail as draft.
  - Select **REPLYALL** to save the reply to all mail as draft.
  - Select **FORWARD** to save the forwarded mail as draft.

**Optional Fields:** The activity has following optional fields:

- **folder ID:** The ID of the folder where draft mail is saved.
- **message\_id:** ID of the mail.
- **message** parameter having following fields:
  - Subject of the draft mail
  - **Body** parameter having following fields:
  - **Content:** Add contents of the text as per the content type in base-64 format.
  - **Content Type:** Having text and HTML values.
- **Importance** parameter having following fields in which user can set the importance level:
  - Low
  - Normal
  - High
- **ToRecipients** parameter having **EmailAddress** field which has following fields:
  - **Address:** email address of recipients in **To** field.
  - **Name:** name of the recipient.
- **CcRecipients** parameter having **EmailAddress** field which has following fields:
  - **Address:** email address of recipients in **Cc** field.
  - **Name:** name of the recipient.
- **BccRecipients** parameter having **EmailAddress** field which has following fields:
  - **Address:** email address of recipients in **Bcc** field.
  - **Name:** name of the recipient.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Create Draft Mails activity.

Note: User can also add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

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## Using the MS Office 365 Get Folders activity

Use the Get Folders activity to retrieve all the folders or a specific folder in MS Office 365.

Use this task to retrieve all the folders or a specific folder in MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Get Folders activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Get Folders** activity icon onto the orchestration. The MS Office 365 Get Folders checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Get Folders activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has the following mandatory field:

- **InputType:** This has following two values:
  - Select **ALL\_FOLDERS** to fetch all the folders.
  - Select **BY\_FOLDER\_ID** to fetch specific folder.

**Optional Fields:** The activity has following optional fields:

- **folder\_id:** This is used to set the ID of the specific folder whose details are to be fetched from MS Office 365.
- **Customize:** This is used to set the Odata query parameters in following fields:
  - **Top**
  - **Skip**
  - **FilterRequests**
  - **SelectProperties**
  - **Orderby**

Note:

- Refer [â€˜ODATA Query Parametersâ€™](#) document for filtering, sorting, and paging parameters.
- Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Get Folders activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

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## Using the MS Office 365 Create Folders activity

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Use the Create Folders activity to create mail folders in MS Office 365.

Use this task to create mail folders in MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Create Folders activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Create Folders** activity icon onto the orchestration. The MS Office 365 Create Folders checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Create Folders activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **folder\_id:** The ID of the folder where new folder is to be created.
- **DisplayName:** Name of the folder to be created.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
  2. Create a map between the output parameters and orchestration variables.
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## Using the MS Office 365 Update Folders activity

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Use the Update Folders activity to update folders in MS Office 365.

Use this task to update folders in the MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Update Folders activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Update Folders** activity icon onto the orchestration. The MS Office 365 Update Folders checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.

7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Update Folders activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has the following mandatory field:

- **folder\_id:** This is used to set the ID of the folder to update the record at MS Office 365.

**Optional Fields:** The activity has following optional fields:

- **DisplayName:** This is used to update the display name of the folder.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Update Folders activity.

Note: User can also add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

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## Using the MS Office 365 Delete Folders activity

---

Use the Delete Folders activity to delete a folder in MS Office 365. Deleted contents might not be recoverable.

Use this task to delete a folder in MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Delete Folders activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Delete Folders** activity icon onto the orchestration. The MS Office 365 Delete Folders checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Delete Folders activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has the following mandatory field:

- **folderId:** ID of the folder to be deleted.

**Optional Fields:** The activity does not have any optional fields.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Delete Folders activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

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## Using the MS Office 365 Move Folders activity

Use the Move Folders activity to move a folder and its contents to another folder or copy a folder and its contents to another folder in MS Office 365.

Use this task to move a folder and its contents to another folder or copy a folder and its contents to another folder in MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Move Folders activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Move Folders** activity icon onto the orchestration. The MS Office 365 Move Folders checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Move Folders activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **InputType:** This has following two values:
  - Select **MOVE** to move the folder to destination.
  - Select **COPY** to save a copy of the folder in the destination.
- **folder\_Id:** The ID of the folder which has to be moved or copied.
- **destination\_id:** ID of the destination folder where moved or copied folder has to be placed.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory

element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Move Folders activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

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## Using the MS Office 365 Create Contacts activity

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Use the Create Contacts activity to add a contact to the root **Contacts** folder or to the contacts endpoint of another contact folder in MS Office 365.

Use this task to add a contact to the root **Contacts** folder or to the contacts endpoint of another contact folder in MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Create Contacts activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Create Contacts** activity icon onto the orchestration. The MS Office 365 Create Contacts checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Create Contacts activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **contact\_folder\_id:** ID of the contactfolder under which contact is to be created.

**Optional Fields:** The activity has following optional fields:

- **contact:** Specify properties of the contact which is to be added in created contact.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Create Contacts activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

**Parent topic:** [MS Office 365 Activities](#)

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## Using the MS Office 365 Update Contacts activity

---

Use the Update Contacts activity to change a contact's properties in MS Office 365.

Use this task to change a contact's properties in MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Update Contacts activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Update Contacts** activity icon onto the orchestration. The MS Office 365 Update Contacts checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Update Contacts activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **contact\_id:** ID of the contact which has to be updated.

**Optional Fields:** The activity has following optional fields:

- **contact:** Specify properties of the contact which is to be updated in contact.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Update Contacts activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

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## Using the MS Office 365 Get Contacts activity

---

Use the Get Contacts activity to retrieve all the contacts from a default folder, contact folder provided, or a specific contact in MS Office 365.

Use this task to retrieve all the contacts from a default folder, contact folder provided, or a specific contact in MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Get Contacts activity:

1. In an active orchestration, open the **Activities** tab and expand the MS Office 365 folder contents.
2. Drag the **Get Contacts** activity icon onto the orchestration. The MS Office 365 Get Contacts checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Get Contacts activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **InputType:** This has following two values:
- Select **ALL\_CONTACTS** to fetch all the contacts.
- Select **SINGLE\_CONTACT** to fetch specific contact.

**Optional Fields:** The activity has following optional fields:

- **contact\_folder\_id:** This is used to set the ID of the specific contact folder to fetch the details from MS Office 365.
- **contact\_id:** ID of the specific contact to be fetched.
- **Customize:** This is used to set the Odata query parameters in following fields:
  - **Top**
  - **Skip**
  - **FilterRequests**
  - **SelectProperties**
  - **Orderby**

Note:

- Refer ~ODATA Query Parameters™ document for filtering, sorting, and paging parameters.
- Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Get Contacts activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

**Parent topic:** [MS Office 365 Activities](#)

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## Using the MS Office 365 Delete Contacts activity

---

Use the Delete Contacts activity to delete a contact in MS Office 365. Deleted contents might not be recoverable.

Use this task to delete a contact in MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Delete Contacts activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Delete Contacts** activity icon onto the orchestration. The MS Office 365 Delete Contacts checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant **MS Office 365** endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Delete Contacts activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **contactId:** ID of the contact to be deleted.

**Optional Fields:** The activity does not have any optional fields.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Delete Contacts activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

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## Using the MS Office 365 Get Contact Folders activity

Use the Get Contact Folders activity to retrieve all the contact folders or a specific contact folder in MS Office 365.

Use this task to retrieve all the contact folders or a specific contact folder in MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Get Contact Folders activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Get Contact Folders** activity icon onto the orchestration. The MS Office 365 Get Contact Folders checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Get Contact Folders activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **InputType:** This has following two values:
  - Select **ALL\_CONTACT\_FOLDERS** to fetch all the contact folders.
  - Select **SINGLE\_CONTACT\_FOLDER** to fetch specific contact folder.

**Optional Fields:** The activity has following optional fields:

- **contact\_folder\_id:** This is used to set the ID of the specific contact folder to fetch the details from MS Office 365.
- **Customize:** This is used to set the Odata query parameters in following fields:
  - **Top**
  - **Skip**
  - **FilterRequests**
  - **SelectProperties**
  - **Orderby**

Note:

- Refer â€˜ODATA Query Parametersâ€™ document for filtering, sorting, and paging parameters.
- Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Get Contact Folders activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

**Parent topic:** [MS Office 365 Activities](#)

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## Using the MS Office 365 Create Calendars activity

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Use the Create Calendars activity to create calendar in MS Office 365.

Use this task to create calendar in the MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Create Calendars activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Create Calendars** activity icon onto the orchestration. The MS Office 365 Create Calendars checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Create Calendars activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory field:

- **calendar\_group\_id:** This is used to set the ID of the calendar group to add new calendar.
- **name:** This is used to set a new name of the calendar.

**Optional Fields:** There are no optional fields for this activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Create Calendars activity.

Note: User can also add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

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## Using the MS Office 365 Update Calendars activity

---

Use the Update Calendars activity to update calendars in MS Office 365.

Use this task to update calendars in the MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Update Calendars activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Update Calendars** activity icon onto the orchestration. The MS Office 365 Update Calendars checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Update Calendars activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has the following mandatory field:

- **calendar\_id:** This is used to set the ID of the calendar to update the record at MS Office 365.

**Optional Fields:** The activity has the following optional field:

- **name:** This is used to set a new name or update the existing name of the calendar.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Update Calendars activity.

Note: User can also add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

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## Using the MS Office 365 Get Calendars activity

---

Use the Get Calendars activity to retrieve all the calendars, calendars from a specific group, or a specific calendar in MS Office 365.

Use this task to retrieve all the calendars, calendars from a specific group, or a specific calendar in MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Get Calendars activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Get Calendars** activity icon onto the orchestration. The MS Office 365 Get Calendars checklist is displayed.
3. In the checklist, click **Summary**.

4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Get Calendars activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has the following mandatory field:

- **InputType:** This has following two values:
  - Select **ALL\_CALENDARS** to fetch all the calendars.
  - Select **SINGLE\_CALENDAR** to fetch a specific calendar.

**Optional Fields:** The activity has following optional fields:

- **calendar\_group\_id:** This is used to set the ID of the specific calendar group to fetch the details from MS Office 365.
- **calendar\_id:** ID of the calendar to be fetched.
- **Customize:** This is used to set the Odata query parameters in following fields:
  - **Top**
  - **Skip**
  - **FilterRequests**
  - **SelectProperties**
  - **Orderby**

Note:

- Refer “ODATA Query Parameters” document for filtering, sorting, and paging parameters.
- Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Get Calendars activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

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## Using the MS Office 365 Delete Calendars activity

Use the Delete Calendars activity to delete calendars in MS Office 365.

Use this task to delete calendars in the MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Delete Calendars activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Delete Calendars** activity icon onto the orchestration. The MS Office 365 Delete Calendars checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Delete Calendars activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has the following mandatory field:

- **calendar\_id:** This is used to set the ID of the calendar to be deleted from MS Office 365.

**Optional fields:** The activity does not have any optional fields.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Delete Calendars activity.

Note: User can also add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

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## Using the MS Office 365 Create Calendar Groups activity

Use the Create Calendar Groups activity to create a Calendar Group in MS Office 365.

Use this task to create a Calendar Group in MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Create Calendar Groups activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Create Calendar Groups** activity icon onto the orchestration. The MS Office 365 Create Calendar Groups checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Create Calendar Groups activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **Name:** Name of the calendar group which is to be created.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Create Calendar Groups activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

**Parent topic:** [MS Office 365 Activities](#)

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## Using the MS Office 365 Update Calendar Groups activity

Use the Update Calendar Groups activity to update calendar groups in MS Office 365.

Use this task to update calendar groups in the MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Update Calendar Groups activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Update Calendar Groups** activity icon onto the orchestration. The MS Office 365 Update Calendar Groups checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Update Calendar Groups activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has the following mandatory field:

- **calendar\_group\_id:** This is used to set the ID of the specific calendar group to update the record at MS Office 365.

**Optional Fields:** The activity has following optional fields:

- **name:** This is used to set a new name or update the existing name of the calendar group.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Update Calendar Groups activity.

Note: User can also add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

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## Using the MS Office 365 Get Calendar Groups activity

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Use the Get Calendar Groups activity to fetch calendar groups in MS Office 365.

Use this task to fetch calendar groups in the MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Get Calendar Groups activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Get Calendar Groups** activity icon onto the orchestration. The MS Office 365 Get Calendar Groups checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Get Calendar Groups activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory field:

- **InputType:** This has following two values:
  - Select **ALL\_CALENDARGROUPS** to fetch all the calendar groups.
  - Select **SINGLE\_CALENDARGROUPS** to fetch a specific calendar group.

**Optional Fields:** The activity has following optional fields:

- **calendar\_group\_id:** This is used to set the ID of the specific calendar group to fetch the details from MS Office 365.
- **Customize:** This is used to set the Odata query parameters in following fields:
  - **Top**
  - **Skip**
  - **FilterRequests**
  - **SelectProperties**
  - **Orderby**

Note:

- Refer to ODATA Query Parameters document for filtering, sorting, and paging parameters.
  - Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
  2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Get Calendar Groups activity.

Note: User can also add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

**Parent topic:** [MS Office 365 Activities](#)

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## Using the MS Office 365 Delete Calendar Groups activity

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Use the Delete Calendar Groups activity to delete calendar groups in MS Office 365.

Use this task to delete calendar groups in the MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Delete Calendar Groups activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Delete Calendar Groups** activity icon onto the orchestration. The MS Office 365 Delete Calendar Groups checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Delete Calendar Groups activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory field:

- **calendar\_group\_id:** This is used to set the ID of the calendar group to be deleted from MS Office 365.

**Optional fields:** The activity does not have any optional fields.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.

2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Delete Calendar Groups activity.

Note: User can also add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

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## Using the MS Office 365 Create Events activity

---

Use the Create Events activity to create events in MS Office 365.

Use this task to create events in the MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Create Events activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Create Events** activity icon onto the orchestration. The MS Office 365 Create Events checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Create Events activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **Calendar\_id:** This is used to set the ID of the calendar where event is added.

**Optional Fields:** The activity has following optional fields:

- **event** parameter having following fields:
- **Subject:** This is used to set the subject of the event.
- **Body** parameter having following fields:
  - **Content:** Add contents of the text as per the content type in base-64 format.
  - **Content Type:** Having text and HTML values.
- **Importance** parameter having following fields in which user can set the importance level:
  - Low
  - Normal
  - High
- **Attendees** parameter having **EmailAddress** and **Type** fields which have the following fields:

**EmailAddress** has following fields:

- **Address:** email address of attendees.
- **Name:** name of the attendees.

**Type** has Required, Optional, and Resource values which are set for attendees.

- **Start:** start time of the event.
- **End:** end time of the event.
- **Attachments:** User can add multiple attachments for single events.
- **Categories:** User can categorize the event as Blue, Green, Orange, Purple, Red, and Yellow category
- **Location** parameter having the following field:
- **DisplayName:** location of the event.
- **IsAllDay:** This is the Boolean field which is used to generate event all day if value is True. If value is False, the event is not generated all day.
- **IsOrganizer:** This is the Boolean field which accepts True or False value. If event is generated by organizer, this field has True value else the value is False.
- **Organizer** parameter having the following field:
- **EmailAddress:** email address of organizer.
- **Recurrence** parameter having **Pattern** field in which user can define the event generation pattern.
- **ResponseRequested:** This is a Boolean parameter which accepts True or False value. If value is True, a response is requested from attendees and if value is False, no response is received.
- **Type:** User can generate an event as per the type selected.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Create Events activity.

Note: User can also add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

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## Using the MS Office 365 Update Events activity

Use the Update Events activity to update events in MS Office 365.

Use this task to update events in the MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Update Events activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Update Events** activity icon onto the orchestration. The MS Office 365 Update Events checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Update Events activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory field:

- **event\_id:** This is used to set the ID of the event to update the record at MS Office 365.

**Optional Fields:** The activity has following optional fields:

- **event** parameter having following fields:
- **Subject:** This is used to set the subject of the event.
- **Body** parameter having following fields:
  - **Content:** Add contents of the text as per the content type in base-64 format.
  - **Content Type:** Having text and HTML values.
- **Importance** parameter having following fields in which user can set the importance level:
  - Low
  - Normal
  - High
- **Attendees** parameter having **EmailAddress** and **Type** fields which have following fields:

**EmailAddress** has following fields:

- **Address:** email address of attendees.
- **Name:** name of the attendees.

**Type** has Required, Optional, and Resource values which are set for attendees.

- **Start:** start time of the event.
- **End:** end time of the event.
- **Attachments:** User can add multiple attachments for single events.
- **Categories:** User can categorize the event as Blue, Green, Orange, Purple, Red, and Yellow category.
- **Location** parameter having following field:
- **DisplayName:** location of the event.
- **IsAllDay:** This is the Boolean field which is used to generate event all day if value is True. If value is False, the event is not generated all day.
- **IsCancelled:** This is the Boolean field which is used to cancel generated event when value is True. If value is False, then event is not cancelled.
- **IsOrganizer:** This is the Boolean field which accepts True or False value. If event is generated by organizer, this field has True value else the value is False.
- **Organizer** parameter having following field:
- **EmailAddress:** email address of organizer.
- **Recurrence** parameter having **Pattern** field in which user can define the event generation pattern.
- **ResponseRequested:** This is a Boolean parameter which accepts True or False value. If value is True, a response is requested from attendees and if value is False, no response is received.
- **Type:** User can able to generate event as per the type selected.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Update Events activity.

Note: User can also add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

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## Using the MS Office 365 Get Events activity

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Use the Get Events activity to retrieve different types of events along with their attachments if required from calendar in MS Office 365.

Use this task to retrieve all events within a specific time range from default calendar or a calendar\_id provided. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Get Events activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Get Events** activity icon onto the orchestration. The MS Office 365 Get Events checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Get Events activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **InputType:** This has following four values:
  - Select **ALL\_EVENTS\_WITHIN\_SPECIFIED\_TIME** to fetch all the events within specific time range.
  - Select **ALL\_RECURRINGEVENTS\_FOR\_CALENDAR\_ID** to fetch all recurring events from default primary calendar or from the calendar id provided.
  - Select **SINGLE\_EVENTOCCURRENCES\_WITHIN\_SPECIFIED\_TIME** to fetch specific event occurrence within specified time range.
  - Select **SINGLE\_EVENT** to fetch specific event.

**Optional Fields:** The activity has following optional fields:

- **calendarid:** This is used to set the ID of the specific calendar to fetch the details from MS Office 365.
- **startDateTime:** Starting date and time of the time range is specified in this parameter.
- **endDateTime:** End date and time of the time range is specified in this parameter.
- **event\_id:** ID of the specific event to be fetched.
- **include\_attachments:** Specify True if attachments are required to be fetched along with events, otherwise False.
- **Customize:** This is used to set the Odata query parameters in following fields:
  - **Top**
  - **Skip**
  - **FilterRequests**
  - **SelectProperties**
  - **orderby**

Note:

- Refer [â€˜ODATA Query Parametersâ€™](#) document for filtering, sorting, and paging parameters.
- Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Get Events activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

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## Using the MS Office 365 Delete Events activity

---

Use the Delete Events activity to delete an event in MS Office 365. Deleted contents might not be recoverable.

Use this task to delete an event in MS Office 365 instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MS Office 365 Delete Events activity:

1. In an active orchestration, open the **Activities** tab and expand the **MS Office 365** folder contents.
2. Drag the **Delete Events** activity icon onto the orchestration. The MS Office 365 Delete Events checklist is displayed.
3. In the checklist, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the checklist, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant MS Office 365 endpoint.
7. To make required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.

Note: Additional configuration is not required for this activity.

1. Select **Map Inputs** in the checklist. The XML schemas generated from the selected object of the Delete Events activity are displayed as nodes under the request input parameter in the **To Activity** panel.
2. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- **eventId:** ID of the event to be deleted.

**Optional Fields:** The activity does not have any optional fields.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select **Map Outputs** in the checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 Delete Events activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right-click the object in the **To Activity** pane of Map Inputs, and select **Expand Occurrences**. Only multiple objects of the same type are supported.

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## MS Office One Drive Activities

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- [Creating or editing an endpoint for MS Office 365 OneDrive activity](#)

Endpoints provide the configuration information that Studio and the Integration Appliance use to connect to a MS Office 365 OneDrive server. MS Office 365 OneDrive uses OAuth 2.0 authentication mechanism to authenticate and authorize users to perform operations.

- [Using the MS Office 365 OneDrive Create Folders Activity](#)
- [Using the MS Office 365 OneDrive Upload Files Activity](#)
- [Using the MS Office 365 OneDrive List Folder Contents Activity](#)
- [Using the MS Office 365 OneDrive Download Files Activity](#)
- [Using the MS Office 365 One Drive Get Properties Activity](#)
- [Using the MS Office 365 One Drive Update Properties Activity](#)
- [Using the MS Office 365 One Drive Copy Files or Folders Activity](#)
- [Using the MS Office 365 One Drive Delete Files or Folders Activity](#)

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## Creating or editing an endpoint for MS Office 365 OneDrive activity

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Endpoints provide the configuration information that Studio and the Integration Appliance use to connect to a MS Office 365 OneDrive server. MS Office 365 OneDrive uses OAuth 2.0 authentication mechanism to authenticate and authorize users to perform operations.

### Selecting or editing a MS Office 365 OneDrive endpoint

To select or edit a MS Office 365 OneDrive endpoint:

1. In the Create Endpoint or Edit Endpoint pane, configure the MS Office 365 endpoint as described in the following table.  
Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.
2. Click Test Connection to confirm that the connection details are valid and you are able to connect to the MS Office 365 OneDrive successfully.
3. Click OK.

Table 1. Connection properties

Field Name	Description
Base URL	Host name or tenant of the server that serves as the REST endpoint
OAuth Access Token	OAuth access token generated from MS Office 365 OneDrive for authentication
OAuth Refresh Token	OAuth refresh token generated from MS Office 365 OneDrive while generating OAuth Access token
Application Client ID	Application client ID generated from the server where the application is hosted
Application Client Secret	Application client secret generated from the server where the application is hosted

Note: To generate the access token, refer to the MS Office 365 API documentation relating to [â€œOAuth2 Authentication Support in MS Office 365 REST APIâ€](#).

**Parent topic:** [MS Office One Drive Activities](#)

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## Using the MS Office 365 OneDrive Create Folders Activity

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Use the Create Folders activity to create folders in MS Office 365 OneDrive.

Use this task to create folders in MS Office 365 OneDrive instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

1. In an active Orchestration, open the Activities tab and expand the MS Office 365 OneDrive folder contents.
2. Drag the Create Folders activity icon onto the orchestration. The MS Office 365 OneDrive Create Folders Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MS Office 365 OneDrive endpoint.
7. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. Additional configuration is not required for this activity
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Create Folders activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields

- requestType: Value determines whether files are to be uploaded by providing the parent id or by providing path of the location.
- parent\_id: The id of the folder where new folder is to be created. Mandatory when requestType is BY\_ID
- path: Location where the new folder has to be created. Mandatory when requestType is BY\_PATH.
- folder\_name: Name of the folder to be created.

**Optional Fields:** The activity has following optional fields

- support\_x\_http\_method – True or False. Whether to support X-HTTP-Method

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 OneDrive Create Folders activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [MS Office One Drive Activities](#)

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## Using the MS Office 365 OneDrive Upload Files Activity

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Use the Upload Files activity to upload files in MS Office 365 OneDrive.

Use this task to upload files in MS Office 365 OneDrive instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

1. In an active Orchestration, open the Activities tab and expand the MS Office 365 OneDrive folder contents.
2. Drag the Upload Files activity icon onto the orchestration. The MS Office 365 OneDrive Upload Files Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MS Office 365 OneDrive endpoint.
7. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. Additional configuration is not required for this activity
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Upload Files activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields

- parent\_id: The id of the folder where new file has to be uploaded. Mandatory when requestType is BY\_ID.
- path: Location where the new folder has to be created. Mandatory when requestType is BY\_PATH.
- file\_name: Name of the file to be uploaded.
- file\_content: Content of the file which is uploaded in either binary format or text format.
- requestType: Value determines whether files are to be uploaded by providing the parent id or by providing path of the location.
- contentType: Value determines whether content of the file to be uploaded is TEXT or BINARY.

**Optional Fields:** The activity has following optional fields

- nameConflict – Can be either “overwrite” or “abort”
- support\_x\_http\_method – True or False. Whether to support X-HTTP-Method

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 OneDrive Upload Files activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [MS Office One Drive Activities](#)

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## Using the MS Office 365 OneDrive List Folder Contents Activity

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Use the List Folder Contents activity to retrieve all the content present in a folder in MS Office 365 OneDrive.

Use this task to list content of a folder in MS Office 365 OneDrive instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

1. In an active Orchestration, open the Activities tab and expand the MS Office 365 OneDrive folder contents.

2. Drag the List Folder Contents activity icon onto the orchestration. The MS Office 365 OneDrive List Folder Contents Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MS Office 365 OneDrive endpoint.
7. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. Additional configuration is not required for this activity
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the List Folder Contents activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields

- requestType: Value determines whether folder whose contents are to be retrieved by providing the parent id or by providing path of the location.
- file\_id: The id of the folder whose contents are to be fetched. Mandatory when requestType is BY\_ID.
- path: Location of the folder whose contents are to be retrieved. Mandatory when requestType is BY\_PATH.

**Optional Fields:** The activity has following optional fields

- filter – Filtering based on the name parameter
- orderby – Order by name parameter
- select - List of the properties that should be included for each item in the response
- skipToken – Paging token
- top – Determines the maximum of records to return
- etag\_if\_none\_match – The Etag value to be provided in the HTTP header.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 OneDrive List Folder Contents activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [MS Office One Drive Activities](#)

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## Using the MS Office 365 OneDrive Download Files Activity

Use the Download Files activity to download files in MS Office 365 OneDrive.

Use this task to download files in MS Office 365 OneDrive instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

1. In an active Orchestration, open the Activities tab and expand the MS Office 365 OneDrive folder contents.
2. Drag the Download Files activity icon onto the orchestration. The MS Office 365 OneDrive Download Files Checklist is displayed.
3. In the Checklist, click Summary.

4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MS Office 365 OneDrive endpoint.
7. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. Additional configuration is not required for this activity
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Download Files activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields

- file\_id: The id of the file to be downloaded. Mandatory when requestType is BY\_ID.
- path: Location of the file which is to be downloaded. Mandatory when requestType is BY\_PATH.
- requestType: Value determines whether files to be downloaded by providing the parent id or by providing path of the location.

**Optional Fields:** The activity has following mandatory fields

- etag\_if\_none\_match – The Etag value to be provided in the request of HTTP header.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 OneDrive Download Files activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [MS Office One Drive Activities](#)

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## Using the MS Office 365 One Drive Get Properties Activity

Use the Get Properties activity to fetch properties of a file, folder or drive in MS Office 365 One Drive.

Use this task to get properties of resource in MS Office 365 One Drive instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

1. In an active Orchestration, open the Activities tab and expand the MS Office 365 One Drive folder contents.
2. Drag the Get Properties activity icon onto the orchestration. The MS Office 365 One Drive Get Properties Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MS Office 365 One Drive endpoint.
7. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. Additional configuration is not required for this activity
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Get Properties activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields:

- requestType: This value determines if the resource has to be fetched by BY\_ID or by BY\_PATH.
- inputType: This value specifies which resource's metadata has to be fetched out of FILE, FOLDER, DRIVE.
- folder\_id – The folder properties to be fetched. Mandatory in case requestType is BY\_ID
- file\_id – The file properties to be fetched. Mandatory in case of requestType is BY\_ID
- path - Location of the file which is to be downloaded. Mandatory when requestType is BY\_PATH

**Optional Fields:** The activity has following mandatory fields

- expand – A comma-separated list of relationships to expand and include in the response
- select - A comma-separated list of properties to include in the response
- etag\_if\_none\_match – The Etag value to be send as HTTP header

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 One Drive Get Properties activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [MS Office One Drive Activities](#)

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## Using the MS Office 365 One Drive Update Properties Activity

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Use the Update Properties activity to update properties of a file, folder or drive in MS Office 365 One Drive.

Use this task to update properties in MS Office 365 One Drive instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

1. In an active Orchestration, open the Activities tab and expand the MS Office 365 One Drive folder contents.
2. Drag the Update Properties activity icon onto the orchestration. The MS Office 365 One Drive Update Properties Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MS Office 365 One Drive endpoint.
7. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. Additional configuration is not required for this activity
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Update Properties activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields

- requestType: This value determines if the resource has to be updated BY\_ID or BY\_PATH
- inputType: This value specifies which resource's metadata has to be updated out of FILE or FOLDER.
- folder\_id – The folder properties to be fetched. Mandatory in case requestType is BY\_ID

- file\_id – The file properties to be fetched. Mandatory in case of requestType is BY\_ID
- path - Location of the file which is to be downloaded. Mandatory when requestType is BY\_PATH
- etag\_if\_match – The Etag value to be sent in request as HTTP header
- new\_name – The new name to be given either to file or folder
- destination\_folder\_id – The destination folder id is required when you want to move either files or folder from one location to another
- destination\_folder\_path - The destination folder path is required when you want to move either files or folder from one location to another

**Optional Fields:** The activity has following mandatory fields:

- support\_x\_http\_method – True or False. Whether to support X-HTTP-Method

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 One Drive Update Properties activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [MS Office One Drive Activities](#)

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## Using the MS Office 365 One Drive Copy Files or Folders Activity

Use the Copy Files or Folders activity to copy files or folders to destination folder in MS Office 365 One Drive.

Use this task to copy files or folders to destination folder in MS Office 365 One Drive instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

1. In an active Orchestration, open the Activities tab and expand the MS Office 365 One Drive folder contents.
2. Drag the Copy Files or Folders activity icon onto the orchestration. The MS Office 365 One Drive Copy Files or Folders Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MS Office 365 One Drive endpoint.
7. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. Additional configuration is not required for this activity
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Copy Files or Folders activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields

- requestType: This value determines if the resource has to be located for copying by id or by path.
- inputType: This value specifies which resource's metadata has to be copied out of file or folder.
- folder\_id – The folder properties to be fetched. Mandatory in case requestType is BY\_ID
- file\_id – The file properties to be fetched. Mandatory in case of requestType is BY\_ID

- path - Location of the file which is to be downloaded. Mandatory when requestType is BY\_PATH
- new\_name – The new name to be given either to file or folder
- destination\_folder\_id – The destination folder id is required when you want to move either files or folder from one location to another
- destination\_folder\_path - The destination folder path is required when you want to move either files or folder from one location to another

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 One Drive Copy Files or Folders activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [MS Office One Drive Activities](#)

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## Using the MS Office 365 One Drive Delete Files or Folders Activity

Use the Delete Files or Folders activity to delete files or folders in MS Office 365 One Drive.

Use this task to delete files or folders in MS Office 365 One Drive instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

1. In an active Orchestration, open the Activities tab and expand the MS Office 365 One Drive folder contents.
2. Drag the Delete Files or Folders activity icon onto the orchestration. The MS Office 365 One Drive Delete Files or Folders Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MS Office 365 One Drive endpoint.
7. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
8. Additional configuration is not required for this activity
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Delete Files or Folders activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:** The activity has following mandatory fields

- requestType: This value determines if the resource has to be located for deleting by id or by path.
- inputType: This value specifies which resource's metadata has to be deleted out of file or folder.
- folder\_id – The folder properties to be fetched. Mandatory in case requestType is BY\_ID
- file\_id – The file properties to be fetched. Mandatory in case of requestType is BY\_ID
- path - Location of the file which is to be downloaded. Mandatory when requestType is BY\_PATH
- etag\_if\_match – The Etag value to be sent in request as HTTP header

**Optional Fields:** The activity has following mandatory fields

- support\_x\_http\_method – True or False. Whether to support X-HTTP-Method

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
2. Create a map between the output parameters and orchestration variables.

User has configured the MS Office 365 One Drive Delete Files or Folders activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [MS Office One Drive Activities](#)

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## MS SharePoint Activities

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- [Overview of MS SharePoint connector](#)

- [Creating or editing an endpoint for MS SharePoint activity](#)

Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to MS SharePoint platform. MS SharePoint uses both Basic and OAuth 2.0 authentication mechanism so as to authorize users to perform operations.

- [Using the MS SharePoint Upload Files Activity](#)

Use the Upload File activity to upload new files in MS SharePoint.

- [Using the MS SharePoint Update Files Activity](#)

Use the Update Files activity to update an existing file's content in MS SharePoint.

- [Using the MS SharePoint Delete Files Activity](#)

Use the Delete Files activity to delete a file from MS SharePoint.

- [Using the MS SharePoint Download Files Activity](#)

Use the Download Files activity to view the file properties as well as its content in MS SharePoint.

- [Using the MS SharePoint Create Folder Activity](#)

Use the Create Folder activity to create new folder in MS SharePoint.

- [Using the MS SharePoint Retrieve Folder Activity](#)

Use the Retrieve Folder activity to view the folder properties of an existing folder in MS SharePoint.

- [Using the MS SharePoint Update Folder Activity](#)

Use the Update Folder activity to modify folder properties in MS SharePoint.

- [Using the MS SharePoint Delete Folders Activity](#)

Use the Delete Folders activity to delete folder from MS SharePoint.

- [Using the MS SharePoint Retrieve User Activity](#)

Use the Retrieve User activity to view the User details from MS SharePoint.

- [Using the MS SharePoint Share Files Activity](#)

Use the Share Files activity to share an existing file in MS SharePoint.

- [Using the MS SharePoint Search Files Activity](#)

Use the Search Files activity to search files in MS SharePoint.

- [Using the MS SharePoint Create Lists Activity](#)

Use the Create Lists activity to create lists in MS SharePoint.

- [Using the MS SharePoint Update Lists Activity](#)

Use the Update Lists activity to update lists in MS SharePoint.

- [Using the MS SharePoint Retrieve Lists Activity](#)

Use the Retrieve Lists activity to retrieve list properties from MS SharePoint.

- [Using the MS SharePoint Delete Lists Activity](#)

Use the Delete Lists activity to delete lists in MS SharePoint.

- [Using the MS SharePoint Create List Items Activity](#)  
Use the Create List Items activity to create Items for existing lists in MS SharePoint.
- [Using the MS SharePoint Update List Items Activity](#)  
Use the Update List Items activity to update list item properties for existing lists in MS SharePoint.
- [Using the MS SharePoint Retrieve List Items Activity](#)  
Use the Retrieve List Items activity to retrieve list item properties for existing lists from MS SharePoint.
- [Using the MS SharePoint Delete List Items Activity](#)  
Use the Delete List Items activity to delete list items of existing lists in MS SharePoint.
- [Using the MS SharePoint Create Attachments Activity](#)  
Use the Create Attachments activity to create attachments for list items of existing lists in MS SharePoint.
- [Using the MS SharePoint Update Attachments Activity](#)  
Use the Update Attachments activity to update the contents of list items attachments for existing lists in MS SharePoint.
- [Using the MS SharePoint Retrieve Attachments Activity](#)  
Use the Retrieve Attachments activity to retrieve details of all attachments of a list item for existing lists in MS SharePoint.
- [Using the MS SharePoint Retrieve Attachment Content Activity](#)  
Use the Retrieve Attachment Contents activity to retrieve contents of the attachments of a List item for existing lists in MS SharePoint.
- [Using the MS SharePoint Delete Attachments Activity](#)  
Use the Delete Attachments activity to delete attachments of list item for existing lists in MS SharePoint.
- [Specifying the Retry options for MS SharePoint REST API activities](#)  
Specifying the Retry parameters is one of the tasks to configure a MS SharePoint activity. The MS SharePoint REST API connector uses a single login session for all connections to an MS SharePoint REST API endpoint. If a session expires, the connector automatically establishes a new session. The connector does not count the initial attempt to reacquiring the session as a retry attempt. The connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails.

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## Overview of MS SharePoint connector

SharePoint is a web application platform in the Microsoft Office server suite. SharePoint combines various functions which are traditionally separate applications: intranet, extranet, content management, document management, personal cloud, enterprise social networking, enterprise search, business intelligence, workflow management, web content management, and an enterprise application store. SharePoint is basically a secure place to store, organize, share, collaborate and access information.

SharePoint supports both on premise and cloud environments.

You can perform the following activities using MS SharePoint connector:

- Upload Files
- Download Files
- Update Files
- Delete Files
- Search Files
- Share Files
- Create Folders
- Retrieve Folders
- Update Folders
- Delete Folders
- Create Lists
- Retrieve Lists
- Update Lists
- Delete Lists
- Create List Items
- Retrieve List Items

- Update List Items
- Delete List Items
- Create Attachments
- Retrieve Attachments
- Retrieve Attachment Contents
- Update Attachments
- Delete Attachments
- Retrieve Users

**Parent topic:** [MS SharePoint Activities](#)

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## Creating or editing an endpoint for MS SharePoint activity

Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to MS SharePoint platform. MS SharePoint uses both Basic and OAuth 2.0 authentication mechanism so as to authorize users to perform operations.

### Selecting or editing an MS SharePoint endpoint

To select or edit a MS SharePoint endpoint:

1. In the Create Endpoint or Edit Endpoint pane, configure the MS SharePoint endpoint as described in the following table.  
Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.
2. Click Test Connection to confirm that the connection details are valid and you are able to connect to the MS SharePoint successfully.
3. Click OK.

Table 1. Connection properties

Field Name	Required	Description
Deployment	Mandatory	Deployment drop down will have two values as On Cloud and On Premise
Host name	Mandatory	Host Name for SharePoint On Cloud or On Premise based on the value selected for Deployment field.
Port	Optional	Use default port 80 or 443 if no value is specified.
Sub Site	Optional	Use it while constructing URL if specified.
SharePoint On Premise Details		Section to hold authentication details needed for SharePoint On Premise. Will be enabled only when user selects On Premise from Deployment dropdown.
SharePoint On Cloud Details		Section to hold authentication details needed for SharePoint On Cloud. Will be enabled only when user selects On Cloud from Deployment dropdown.
OAuth Access Token	Mandatory field under SharePoint On Cloud section.	Specifies the OAuth access token generated from MS SharePoint for authentication.
OAuth Refresh Token	Mandatory field under SharePoint On Cloud section.	Specifies the OAuth refresh token generated from MS SharePoint while generating OAuth Access token.
Application Client ID	Mandatory field under SharePoint On Cloud section.	Specifies the Application client ID of the content API application created in MS SharePoint for OAuth.

Field Name	Required	Description
Application Client Secret	Mandatory field under SharePoint On Cloud section.	Specifies the Application client secret of the content API application created in MS SharePoint for OAuth.
Authentication Type		Two types of Authentication mechanisms are supported which are BASIC and NTLM. Its default value is BASIC.
User Name	Mandatory field under On Premise section.	Specifies the username to connect to MS SharePoint. This is same as the MS SharePoint user ID.
Password	Mandatory field under On Premise section.	Specifies the password of the associated username to connect to MS SharePoint.
Domain		If NTLM is selected as Authentication type, Domain needs to be mentioned.
Following parameters are required in endpoint test connection screen to make HTTPS Connection		
HTTPS		Checkbox to indicate whether HTTPS to be used
Following parameters are required in endpoint test connection screen to make connection via Proxy		
Authentication		Two types of Authentication mechanisms are supported which are BASIC and NTLM. Its default value is BASIC.
Host Name		Host Name of Proxy Network
Port		Port Number of the Proxy Network.
User Name		Specifies the user name for accessing service via proxy network.
Password		Specifies the password for accessing service via proxy network.
Domain		If NTLM is selected as Authentication type, Domain needs to be mentioned.

Note: To generate the access token, refer to the MS SharePoint documentation relating to "OAuth 2.0 Authentication".

In addition with the above parameters, there is also a provision for Secure Connector configuration to connect the Endpoint with MS SharePoint On-Premise instance.

In the Map Input section of each activity, relevant fields of endpoint panel are available to override at runtime. User can provide data to various groups of parameters like Proxy Details, Connection Details or Authentication Details to override. Providing only partial field data in a selected group is not allowed to override.

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## Using the MS SharePoint Upload Files Activity

Use the Upload File activity to upload new files in MS SharePoint.

### About this task

Use this task to upload new files at a given file path in MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Upload Files activity. The Upload Files activity will be added to the orchestration. Double click the activity. The MS SharePoint Upload Files Checklist is displayed.

3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
5. Create a map between the orchestration variables and the input parameter of the activity.  
**Mandatory Fields:**
  - o Parent Folder (Folder name where the file needs to be uploaded)
  - o File Name
  - o File Content (It should be provided in Base 64 encoded format for uploading any type of file)

Sample input request:

```
<UploadFileRequestDetails xmlns="">
<parentFolder>/Shared Documents</parentFolder>
<fileName>details.txt</fileName>
<fileContent>a2h1c2hidSBraGF0dWphDQpNb2R1bGUgbGVhZA0KUGVyc21zdGVudCBTeXN0ZW1z</fileContent>
</UploadFileRequestDetails>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

6. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
7. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Upload Files activity.

Note:

You can upload multiple files at one go, using this activity since the input variable is unbounded.

**Parent topic:** [MS SharePoint Activities](#)

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## Using the MS SharePoint Update Files Activity

---

Use the Update Files activity to update an existing file's content in MS SharePoint.

### About this task

---

Use this task to modify an existing file's content in MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Update Files activity. The Update Files activity will be added to the orchestration. Double click the activity. The MS SharePoint Update Files Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
5. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:**

- o File path
- o File Content (It should be provided in Base 64 encoded format for updating any type of file)

**Sample Input request:**

```
<UpdateFileRequestDetails xmlns="">
<filePath>/Shared Documents/ details.txt </filePath>
<fileContent>a2h1c2hidSBraGF0dWphDQpNb2R1bGUgbGVhZA0KUGVyc21zdGVudCBTeXN0ZW1z</fileContent>
</UpdateFileRequestDetails>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

6. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
7. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Update Files activity.

Note:

You can Update multiple files at one go, using this activity since the input variable is unbounded.

**Parent topic:** [MS SharePoint Activities](#)

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## Using the MS SharePoint Delete Files Activity

---

Use the Delete Files activity to delete a file from MS SharePoint.

### About this task

---

Use this task to delete a file permanently from MS SharePoint instance or move it to the Recycle Bin. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Delete Files activity. The Delete Files activity will be added to the orchestration. Double click the activity. The MS SharePoint Delete Files Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
5. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:**

- o File Path
- o Delete Type (Allowed values are Recycle Bin or Permanent)

**Sample input request:**

```
<DeleteFileRequestDetails xmlns="">
<deleteType>Recycle Bin</deleteType>
```

```
<filePath>/Shared Documents/k1.txt</filePath>
</DeleteFileRequestDetails>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

6. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
7. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Delete Files activity.

Note:

You can delete multiple files at one go, using this activity since the input variable is unbounded.

**Parent topic:** [MS SharePoint Activities](#)

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## Using the MS SharePoint Download Files Activity

---

Use the Download Files activity to view the file properties as well as its content in MS SharePoint.

### About this task

---

Use this task to view existing file properties and its content from MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Download Files activity. The Download Files activity will be added to the orchestration. Double click the activity. The MS SharePoint Download File Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
5. Create a map between the orchestration variables and the input parameter of the activity.

Mandatory Fields: File path

Sample Input Request

```
<DownloadFileRequestDetails xmlns="">
<filePath>/Shared Documents/file1.txt</filePath>
</DownloadFileRequestDetails>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

6. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
7. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Download Files activity.

Note:

You can Download multiple files at one go, using this activity since the input variable is unbounded.

**Parent topic:** [MS SharePoint Activities](#)

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## Using the MS SharePoint Create Folder Activity

---

Use the Create Folder activity to create new folder in MS SharePoint.

### About this task

---

Use this task to add new folders in MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Create Folder activity. The Create Folder activity will be added to the orchestration. Double click the activity. The MS SharePoint Create Folder Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
5. Create a map between the orchestration variables and the input parameter of the activity.  
Mandatory Fields:
  - Server Relative Url (It is the path where folder needs to be created. Its format is /Site\_Name/Subsite\_Name (sub site needs to be mentioned if folder needs to be created at sub site))
  - Folder name

#### Sample Input Request

```
<CreateFolderRequestDetails xmlns="">
<serverRelativeUrl>/Shared Documents</serverRelativeUrl>
<folderName>Folder 1</folderName>
</CreateFolderRequestDetails>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

6. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
7. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Create Folder activity.

Note:

You can create multiple folders at one go, using this activity since the input variable is unbounded.

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## Using the MS SharePoint Retrieve Folder Activity

---

Use the Retrieve Folder activity to view the folder properties of an existing folder in MS SharePoint.

### About this task

---

Use this task to fetch folder properties from MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Retrieve Folder activity. The Retrieve Folder activity will be added to the orchestration. Double click the activity. The MS SharePoint Retrieve Folder Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
5. Create a map between the orchestration variables and the input parameter of the activity.

Mandatory Fields:

- o Server Relative Url: (It is the path where folder is present. Its format: /Site\_Name/Subsite\_Name/Folder\_Name/ (sub site needs to be mentioned if folder is present in sub site))
- o Show Children: (Boolean field, if provided its value as TRUE, details of files and folders present inside the given serverRelativeUrl will be shown, if provided as FALSE details of the files and folders won't be shown)

Sample Input Request

```
<RetrieveFolderRequestDetails xmlns="">
<showChildren>true</showChildren>
<serverRelativeUrl>/Shared Documents/Folder1</serverRelativeUrl>
</RetrieveFolderRequestDetails>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

6. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
7. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the MS SharePoint Retrieve Folder activity.

Note:

You can retrieve the details of multiple folders at one go using this activity since the input variable is unbounded.

**Limitation:**

Filter option in retrieve folders activity is not working for On Premise. This is the known API behaviour.

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## Using the MS SharePoint Update Folder Activity

---

Use the Update Folder activity to modify folder properties in MS SharePoint.

### About this task

---

Use this task to update folder properties like WelcomePage in MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Update Folder activity. The Update Folder activity will be added to the orchestration. Double click the activity. The MS SharePoint Update Folder Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
5. Create a map between the orchestration variables and the input parameter of the activity.

Mandatory Fields:

- Server Relative Url: (It is the path where folder is present. Its format: /Site\_Name/Subsite\_Name/Folder\_Name/ (sub site needs to be mentioned if folder is present in sub site))
- WelcomePage: (A property which can be updated)

Sample Input Request

```
<UpdateFolderRequestDetails xmlns="">
<serverRelativeUrl>/Shared Documents/FolderD1</serverRelativeUrl>
<welcomePage>Welcome to SharePoint!!!</welcomePage>
</UpdateFolderRequestDetails>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

6. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
7. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the MS SharePoint Update Folder activity.

Note:

You can update properties of multiple folders at one go using this activity since the input variable is unbounded.

**Parent topic:** [MS SharePoint Activities](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MSSharePoint\\_update\\_folder\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MSSharePoint_update_folder_activity.html)

## Using the MS SharePoint Delete Folders Activity

---

Use the Delete Folders activity to delete folder from MS SharePoint.

### About this task

---

Use this task to remove a folder permanently from MS SharePoint instance or move it to the Recycle Bin. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Delete Folders activity. The Delete Folders activity will be added to the orchestration. Double click the activity. The MS SharePoint Delete Folder Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
*Note:* For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
5. Create a map between the orchestration variables and the input parameter of the activity.  
**Mandatory Fields:**
  - o Server Relative Url (It is the path where folder is present. Its format: /Site\_Name/Subsite\_Name/Folder\_Name/ (sub site needs to be mentioned if folder is present in sub site))
  - o Delete Type (Allowed values are Recycle Bin or Permanent)

#### Sample Input Request

```
<DeleteFolderRequestDetails xmlns="">
<deleteType>Permanent</deleteType>
<serverRelativeUrl>/Shared Documents/Folder1</serverRelativeUrl>
</DeleteFolderRequestDetails>
```

*Note:* Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

6. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
7. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the MS SharePoint Delete Folders activity.

*Note:*

You can delete multiple folders at one go using this activity since the input variable is unbounded.

#### **Limitation:**

Delete Folder returns a success message even if a folder name which is not present in Shared Documents is given in Delete folder request. This is the API behaviour.

**Parent topic:** [MS SharePoint Activities](#)

---

#### [Feedback | Notices](#)

## Using the MS SharePoint Retrieve User Activity

---

Use the Retrieve User activity to view the User details from MS SharePoint.

### About this task

---

Use this task to fetch user details from MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Retrieve User activity. The Retrieve User activity will be added to the orchestration. Double click the activity. The MS SharePoint Retrieve User Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
5. Create a map between the orchestration variables and the input parameter of the activity.

#### Mandatory Fields:

- o Retrieve Type (Valid values are ALL\_USERS, ID and LOGINNAME)
- o User Id (Required if Retrieve Type is given as ID)
- o Login name (Required if Retrieve Type is given as LOGINNAME)

#### Sample Input Request

```
<?xml version="1.0" encoding="UTF-8"?>
<RetrieveUser xmlns="http://www.IBM.com/xmlns/prod/websphere/j2ca/Sharepoint/retrieveuser">

*****Retrieve Type as ALL USEERS *****
<RetrieveUserRequestDetails xmlns="">
<retrieveType>ALL_USERS</retrieveType>
<loginName></loginName>
</RetrieveUserRequestDetails>

*****Valid ID*****
<RetrieveUserRequestDetails xmlns="">
<retrieveType>ID</retrieveType>
<userId>12</userId>
<loginName></loginName>
</RetrieveUserRequestDetails>

*****Valid LOGINNAME*****
<RetrieveUserRequestDetails xmlns="">
<retrieveType>LOGINNAME</retrieveType>
<loginName><:0(.s|true)</loginName>
</RetrieveUserRequestDetails>
</RetrieveUser>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

6. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
7. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the MS SharePoint Retrieve User activity.

Note:

You can retrieve the details of multiple users at one go using this activity since the input variable is unbounded.

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MSSharePoint\\_retrieve\\_user\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MSSharePoint_retrieve_user_activity.html)

## Using the MS SharePoint Share Files Activity

---

Use the Share Files activity to share an existing file in MS SharePoint.

### About this task

---

Use this task to share file with internal or external users in MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Share Files activity. The Share Files activity will be added to the orchestration. Double click the activity. MS SharePoint Share Files Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
5. Create a map between the orchestration variables and the input parameter of the activity.

Mandatory Fields:

- resourceAddress (the full URL to the document you want to share)
- additiveMode
- UserRoleAssignments
  - Role (The Role property represents which permission you are assigning. 1 = View, 2 = Edit, 3 = Owner, 0 = None)
  - userId (The UserId property can be the name of the user or a role.)

Note:

**AdditiveMode:** A flag indicating whether the permission setting uses the additive or strict mode. If this value is "true", the permission setting uses the additive mode, which means that the specified permission will be added to the user's current list of permissions if it is not there already, and if this value is "false", the permission setting uses the strict mode, which means that the specified permission will replace the user's current permissions. This parameter is useful when you want to stop sharing a document with a person or group. In this case you would set AdditiveMode to false using the Role = 0.

Sample input request:

```
<ShareFile xmlns="http://www.IBM.com/xmlns/prod/websphere/j2ca/Sharepoint/sharefile">
  <ShareFileRequestDetails xmlns="">
    <resourceAddress>/shared documents/file1.txt</resourceAddress>
    <UserRoleAssignments>
      <Role>1</Role>
      <UserId>khushbu_khatuja@persistent.com</UserId>
    </UserRoleAssignments>
    <validateExistingPermissions>true</validateExistingPermissions>
    <additiveMode>true</additiveMode>
    <sendServerManagedNotification>true</sendServerManagedNotification>
    <customMessage>hello</customMessage>
    <includeAnonymousLinksInNotification>true</includeAnonymousLinksInNotification>
  </ShareFileRequestDetails>
</ShareFile>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

6. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
7. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Share Files activity.

Note:

You can share multiple files at one go using this activity since the input variable is unbounded.

**Parent topic:** [MS SharePoint Activities](#)

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## Using the MS SharePoint Search Files Activity

---

Use the Search Files activity to search files in MS SharePoint.

### About this task

---

Use this task to search files in MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Search Files activity. The Search Files activity will be added to the orchestration. Double click the activity. MS SharePoint Search Files Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
5. Create a map between the orchestration variables and the input parameter of the activity.

Mandatory Fields:

- queryText (text consisting of the filename user wants to search)
- fileExtension (extension of the file user wants to search)

Sample input request:

```
<Search xmlns="http://www.IBM.com/xmlns/prod/websphere/j2ca/Sharepoint/search">
  <SearchRequestDetails xmlns="">
    <querytext>test</querytext>
    <fileExtension>txt</fileExtension>
  </SearchRequestDetails>
</Search>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

6. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
7. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Search Files activity.

Note:

You can search multiple files at one go using this activity since the input variable is unbounded

**Limitation:**

Search Files Activity is not giving desired results for On Premise. It is working fine for On Cloud. This is the known API behaviour for SharePoint On Premise setup.

**Parent topic:** [MS SharePoint Activities](#)

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## Using the MS SharePoint Create Lists Activity

---

Use the Create Lists activity to create lists in MS SharePoint.

### About this task

---

Use this task to Create Lists in MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Create Lists activity. The Create Lists activity will be added to the orchestration. Double click the activity. The MS SharePoint Create Lists Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
5. Create a map between the orchestration variables and the input parameter of the activity.

Mandatory Fields:

- o BaseTemplate - Base Template is a Squarespace starter template with minimal markup and styles, and is intended to be used as a starting point for your next project. Gets the list definition type on which the list is based. The [hyperlink](#) specifies the different list server templates.
- o Title

Sample Input Request

```
<?xml version="1.0" encoding="UTF-8"?>
<CreateLists xmlns="http://www.IBM.com/xmlns/prod/websphere/j2ca/Sharepoint/createlists">
<CreateListsRequestDetails xmlns="">
<BaseTemplate>100</BaseTemplate>
<Title>BaseTemp100</Title>
</CreateListsRequestDetails>
</CreateLists>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

6. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
7. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Create Lists activity.

Note:

You can create multiple lists at one go using this activity since the input variable is unbounded.

### Limitation:

Lists with more than 256 characters are getting created on Server even though it shows message as “unknown error” in the response. This is a known API behaviour.

**Parent topic:** [MS SharePoint Activities](#)

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## Using the MS SharePoint Update Lists Activity

---

Use the Update Lists activity to update lists in MS SharePoint.

### About this task

---

Use this task to update list properties like Title in MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Update Lists activity. The Update Lists activity will be added to the orchestration. Double click the activity. The MS SharePoint Update Lists Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
5. Create a map between the orchestration variables and the input parameter of the activity.

#### Mandatory Fields:

- o updateBy (Valid values are LIST\_ID and LIST\_TITLE)
- o listId (Required if updateBy is given as LIST\_ID)
- o listTitle (Required if updateBy is given as LIST\_TITLE)
- o NewTitle

#### Sample Input Request

```
<?xml version="1.0" encoding="UTF-8"?>
<UpdateList xmlns="http://www.IBM.com/xmlns/prod/websphere/j2ca/Sharepoint/updatelist">

<!-- 1. updateBy value as LIST_TITLE -->

<UpdateListRequestDetails xmlns="">
<updateBy>LIST_TITLE</updateBy>
<listTitle>List100</listTitle>
<NewTitle>UpdatedTitle</NewTitle>
</UpdateListRequestDetails>

<!-- updateBy value as LIST_ID -->
<UpdateListRequestDetails xmlns="">
<updateBy>LIST_ID</updateBy>
```

```

<listId>087176c2-a1b9-4c97-b7fd-17787d6797de</listId>
<NewTitle>Test Title Updated</NewTitle>
</UpdateListRequestDetails>
</UpdateList>

```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

6. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
7. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Update Lists activity.

Note:

You can update properties of multiple lists at one go using this activity since the input variable is unbounded.

**Parent topic:** [MS SharePoint Activities](#)

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## Using the MS SharePoint Retrieve Lists Activity

---

Use the Retrieve Lists activity to retrieve list properties from MS SharePoint.

### About this task

---

Use this task to retrieve list properties from MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Retrieve Lists activity. The Retrieve Lists activity will be added to the orchestration. Double click the activity. The MS SharePoint Retrieve Lists Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
5. Create a map between the orchestration variables and the input parameter of the activity.

Mandatory Fields:

- retrieveType (Valid values are ALL and SPECIFIC)
- retrieveListBy (Valid values are LIST\_ID and LIST\_TITLE)
- listId (Required if retrieveType is given as SPECIFIC and retrieveListBy as LIST\_ID)
- listTitle (Required if retrieveType is given as SPECIFIC and retrieveListBy as LIST\_TITLE)

Sample Input Request

```

<?xml version="1.0" encoding="UTF-8"?>
<RetrieveList xmlns="http://www.IBM.com/xmlns/prod/websphere/j2ca/Sharepoint/retrievelist">
<!--1. retrieveType value as ALL-->

<RetrieveListRequestDetails xmlns="">
<retrieveType>ALL</retrieveType>

```

```

</RetrieveListRequestDetails>

<!--2. retrieveType value as SPECIFIC and retrieveListBy as LIST_TITLE-->
<RetrieveListRequestDetails xmlns="">
    <retrieveType>SPECIFIC</retrieveType>
    <retrieveListBy>LIST_TITLE</retrieveListBy>
    <listTitle>List103</listTitle>
</RetrieveListRequestDetails>

<!--3. retrieveType value as SPECIFIC and retrieveListBy as LIST_ID-->
<RetrieveListRequestDetails xmlns="">
    <retrieveType>SPECIFIC</retrieveType>
    <retrieveListBy>LIST_ID</retrieveListBy>
    <listId>efb347bd-2b4f-4859-b67c-80c7e60ed8fa</listId>
</RetrieveListRequestDetails>
</RetrieveList>

```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

6. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
7. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Retrieve Lists activity.

Note:

You can retrieve properties of multiple lists at one go using this activity since the input variable is unbounded.

**Limitation:**

ExpandChildren option in retrieve Lists activity is not working for SharePoint On-Premise. This is the known API behaviour for SharePoint On-Premise.

**Parent topic:** [MS SharePoint Activities](#)

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## Using the MS SharePoint Delete Lists Activity

---

Use the Delete Lists activity to delete lists in MS SharePoint.

### About this task

---

Use this task to delete lists in MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Delete Lists activity. The Delete Lists activity will be added to the orchestration. Double click the activity. The MS SharePoint Delete Lists Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.

Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).

4. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
5. Create a map between the orchestration variables and the input parameter of the activity.  
Mandatory Fields:
  - o deleteType (Allowed values are Permanent or Recycle Bin)
  - o deleteBy (Valid values are LIST\_ID and LIST\_TITLE)
  - o listId (If deleteBy is given as LIST\_ID)
  - o listTitle (If deleteBy is given as LIST\_TITLE)

#### Sample Input Request

```
<?xml version="1.0" encoding="UTF-8"?>
<DeleteList xmlns="http://www.IBM.com/xmlns/prod/websphere/j2ca/Sharepoint/deletelist">

<!-- 1. deleteType value as Permanent , deleteBy as LIST_TITLE -->
<DeleteListRequestDetails xmlns="">
  <deleteType>Permanent</deleteType>
  <deleteBy>LIST_TITLE</deleteBy>
  <listTitle>Test List2</listTitle>
</DeleteListRequestDetails>

<!-- 2. deleteType value as Recycle Bin , deleteBy as LIST_ID-->
<DeleteListRequestDetails xmlns="">
  <deleteType> Recycle Bin</deleteType>
  <deleteBy>LIST_ID</deleteBy>
  <listId>087176c2-a1b9-4c97-b7fd-17787d6797de</listId>
</DeleteListRequestDetails>
</DeleteList>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

6. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
7. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Delete Lists activity.

Note:

You can delete multiple lists at one go using this activity since the input variable is unbounded.

**Parent topic:** [MS SharePoint Activities](#)

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## Using the MS SharePoint Create List Items Activity

---

Use the Create List Items activity to create Items for existing lists in MS SharePoint.

### About this task

---

Use this task to create items for existing lists in MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Create List Items activity. The Create List Items activity will be added to the orchestration. Double click the activity. The MS SharePoint Create List Items Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. In the Checklist, click Configure. Click Browse. The List Selection Dialogue is displayed with Lists of only supported base templates which includes base template id as 100, 105 and 120. Select a List and Click OK.
5. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
6. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:**

- o Title

**Sample Input Request**

```
<?xml version="1.0" encoding="UTF-8"?>
<CreateListItems
  xmlns="http://www.IBM.com/xmlns/prod/websphere/j2ca/Sharepoint/createlistitems">
  <CreateListItemsRequestDetails xmlns="">
    <Title>B100_SampleTitle</Title>
  </CreateListItemsRequestDetails>
</CreateListItems>
```

**Note:** Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Create List Items activity.

**Note:**

- You can create multiple list items at one go using this activity since the input variable is unbounded.
- “Multiple choice fields” support is available to create the new list item with choice elements.

**Parent topic:** [MS SharePoint Activities](#)

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## Using the MS SharePoint Update List Items Activity

---

Use the Update List Items activity to update list item properties for existing lists in MS SharePoint.

### About this task

---

Use this task to Update List Item properties like Title for existing lists in MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.

2. Drag the newly created MS SharePoint endpoint to the orchestration and select Update List Items activity. The Update List Items activity will be added to the orchestration. Double click the activity. The MS SharePoint Update List Items Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. In the Checklist, click Configure. Click Browse. The List Selection Dialogue is displayed with Lists of only supported base templates which includes base template id as 100, 105 and 120. Select a List and Click OK.
5. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
6. Create a map between the orchestration variables and the input parameter of the activity.  
**Mandatory Fields:**
  - o Title
  - o itemId (ID of the item which needs to update)

#### Sample Input Request

```
<?xml version="1.0" encoding="UTF-8"?>
<UpdateListItems
  xmlns="http://www.IBM.com/xmlns/prod/websphere/j2ca/Sharepoint/updatelistitems">
  <UpdateListItemsRequestDetails xmlns="">
    <Title>UpdatedTitle</Title>
    <itemId>1</itemId>
  </UpdateListItemsRequestDetails>
</UpdateListItems>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

---

## Results

You have configured the MS SharePoint Update List Items activity.

Note:

- You can update properties of multiple list items at one go using this activity since the input variable is unbounded.
- “Multiple choice fields” support is available to update the existing list item with the choice elements.

**Parent topic:** [MS SharePoint Activities](#)

---

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 Last updated: Monday, 6 March 2017  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MSSharePoint\\_update\\_list\\_item\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MSSharePoint_update_list_item_activity.html)

---

## Using the MS SharePoint Retrieve List Items Activity

Use the Retrieve List Items activity to retrieve list item properties for existing lists from MS SharePoint.

---

### About this task

Use this task to retrieve the Item properties for existing lists from MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

---

### Procedure

1. Right click the Orchestrations section and select new orchestration.

2. Drag the newly created MS SharePoint endpoint to the orchestration and select Retrieve List Items activity. The Retrieve List Items activity will be added to the orchestration. Double click the activity. The MS SharePoint Retrieve List Items Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. In the Checklist, click Configure. Click Browse. The List Selection Dialogue is displayed with Lists of only supported base templates which includes base template id as 100, 105 and 120. Select a List and Click OK.
5. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
6. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory Fields:**

- retrieveType (Allowed values are SPECIFIC or ALL)
- itemId (Required if retrieveType is given as SPECIFIC)

**Sample Input Request**

```
<?xml version="1.0" encoding="UTF-8"?>
<RetrieveListItems
  xmlns="http://www.IBM.com/xmlns/prod/websphere/j2ca/Sharepoint/retrievelistitems">

  <!-- 1. retrieveType value as ALL -->
  <RetrieveListItemsRequestDetails xmlns="">
    <retrieveType>ALL</retrieveType>
  </RetrieveListItemsRequestDetails>

  <!-- 2. retrieveType value as SPECIFIC and valid value for itemId-->
  <RetrieveListItemsRequestDetails xmlns="">
    <retrieveType>SPECIFIC</retrieveType>
    <itemId>1</itemId>
  </RetrieveListItemsRequestDetails>
</RetrieveListItems>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Retrieve List Items activity.

Note:

- You can retrieve properties of multiple list Items at one go using this activity since the input variable is unbounded.
- You can fetch the choice element data if it is available for the list item. Also you can use the “Multiple choice fields” in the filter parameters.

**Parent topic:** [MS SharePoint Activities](#)

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[Feedback](#) | [Notices](#)

 Last updated: Monday, 6 March 2017  
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## Using the MS SharePoint Delete List Items Activity

---

Use the Delete List Items activity to delete list items of existing lists in MS SharePoint.

### About this task

---

Use this task to Delete List items of existing lists in MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Delete List Items activity. The Delete List Items activity will be added to the orchestration. Double click the activity. The MS SharePoint Delete List Items Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. In the Checklist, click Configure. Click Browse. The List Selection Dialogue is displayed with Lists of only supported base templates which includes base template id as 100, 105 and 120. Select a List and Click OK.
5. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
6. Create a map between the orchestration variables and the input parameter of the activity.

### Mandatory Fields:

- o itemId (Id of the item to delete)
- o ETag (gives the version of an item)

### Sample Input Request

```
<?xml version="1.0" encoding="UTF-8"?>
<DeleteListItems
  xmlns="http://www.IBM.com/xmlns/prod/websphere/j2ca/Sharepoint/deletelistitems">
  <DeleteListItemsRequestDetails xmlns="">
    <itemId>4</itemId>
    <ETag>24</ETag>
  </DeleteListItemsRequestDetails>
</DeleteListItems>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Delete List Items activity.

Note:

You can delete multiple list items at one go using this activity since the input variable is unbounded.

**Parent topic:** [MS SharePoint Activities](#)

---

[Feedback](#) | [Notices](#)

 Last updated: Monday, 6 March 2017  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MSSharePoint\\_delete\\_list\\_item\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MSSharePoint_delete_list_item_activity.html)

## Using the MS SharePoint Create Attachments Activity

---

Use the Create Attachments activity to create attachments for list items of existing lists in MS SharePoint.

## About this task

---

Use this task to Create Attachments for list items of existing lists in MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Create Attachments activity. The Create Attachments activity will be added to the orchestration. Double click the activity. The MS SharePoint Create Attachments Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. In the Checklist, click Configure. Click Browse. The List Selection Dialogue is displayed with Lists of only supported base templates which includes base template id as 100, 105 and 120. Select a List and Click OK.
5. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
6. Create a map between the orchestration variables and the input parameter of the activity.  
Mandatory Fields:
  - o itemId (id of the item to which user wants to create attachment)
  - o filename (file name for the attachment)
  - o fileContent- (It should be provided in Base 64 encoded format for uploading any type of file)

### Sample Input Request

```
<?xml version="1.0" encoding="UTF-8"?>
<CreateAttachments
  xmlns="http://www.IBM.com/xmlns/prod/websphere/j2ca/Sharepoint/createattachments">
  <CreateAttachmentsRequestDetails xmlns="">
    <itemId>4</itemId>
    <fileName>Test123.txt</fileName>
    <fileContent>a2h1c2hidSBraGF0dWphDQpNb2R1bGUgbGVhZA0KUGVyc2lzdGVudCBTeXN0ZW1z</fileContent>
  </CreateAttachmentsRequestDetails>
</CreateAttachments>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Create Attachments activity.

Note:

You can create multiple attachments at one go using this activity since the input variable is unbounded.

**Parent topic:** [MS SharePoint Activities](#)

---

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 Last updated: Monday, 6 March 2017  
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## Using the MS SharePoint Update Attachments Activity

---

Use the Update Attachments activity to update the contents of list items attachments for existing lists in MS SharePoint.

### About this task

---

Use this task to update the contents of list items attachments for existing lists in MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Update Attachments activity. The Update Attachments activity will be added to the orchestration. Double click the activity. The MS SharePoint Update Attachments Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. In the Checklist, click Configure. Click Browse. The List Selection Dialogue is displayed with Lists of only supported base templates which includes base template id as 100, 105 and 120. Select a List and Click OK.
5. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
6. Create a map between the orchestration variables and the input parameter of the activity.  
Mandatory Fields:
  - o itemId (id of the item to which user wants to update attachments)
  - o filename (name of the file attached to the item)
  - o fileContent- (It should be provided in Base 64 encoded format for uploading any type of file)

### Sample Input Request

```
<?xml version="1.0" encoding="UTF-8"?>
<List120 xmlns="http://www.IBM.com/xmlns/prod/websphere/j2ca/Sharepoint/list120">
<UpdateAttachmentsRequestDetails xmlns="">
<itemId>4</itemId>
<fileName>test2.txt</fileName>
<fileContent>aGVsbG8gbmFncHVy</fileContent>
</UpdateAttachmentsRequestDetails>
</List120>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Update Attachments activity.

Note:

You can update contents of multiple attachments at one go using this activity since the input variable is unbounded.

**Parent topic:** [MS SharePoint Activities](#)

---

[Feedback](#) | [Notices](#)

 Last updated: Monday, 6 March 2017  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MSSharePoint\\_update\\_attachments\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MSSharePoint_update_attachments_activity.html)

## Using the MS SharePoint Retrieve Attachments Activity

---

Use the Retrieve Attachments activity to retrieve details of all attachments of a list item for existing lists in MS SharePoint.

### About this task

---

Use this task to retrieve details like file name and Server relative Url of all attachments of a list item for existing lists in MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created MS SharePoint endpoint to the orchestration and select Retrieve Attachments activity. The Retrieve Attachments activity will be added to the orchestration. Double click the activity. The MS SharePoint Retrieve Attachments Checklist is displayed.
3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
4. In the Checklist, click Configure. Click Browse. The List Selection Dialogue is displayed with Lists of only supported base templates which includes base template id as 100, 105 and 120. Select a List and Click OK.
5. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
6. Create a map between the orchestration variables and the input parameter of the activity.  
Mandatory Fields:
  - o itemId (id of the item to retrieve attachments)

### Sample Input Request

```
<?xml version="1.0" encoding="UTF-8"?>
<RetrieveAttachments
  xmlns="http://www.IBM.com/xmlns/prod/websphere/j2ca/Sharepoint/retrieveattachments">
  <RetrieveAttachmentsRequestDetails xmlns="">
    <itemId>4</itemId>
  </RetrieveAttachmentsRequestDetails>
</RetrieveAttachments>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Retrieve Attachments activity.

Note:

You can retrieve details of multiple attachments at one go using this activity since the input variable is unbounded.

**Parent topic:** [MS SharePoint Activities](#)

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[Feedback](#) | [Notices](#)

 Last updated: Monday, 6 March 2017

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MSSharePoint\\_retrieve\\_attachments\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MSSharePoint_retrieve_attachments_activity.html)

## Using the MS SharePoint Retrieve Attachment Content Activity

---

Use the Retrieve Attachment Contents activity to retrieve contents of the attachments of a List item for existing lists in MS SharePoint.

## About this task

---

Use this task to retrieve contents of the attachments of a list item for existing lists in MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. Right click the Orchestrations section and select new orchestration.
  2. Drag the newly created MS SharePoint endpoint to the orchestration and select Retrieve Attachment Contents activity. The Retrieve Attachment Contents activity will be added to the orchestration. Double click the activity. The MS SharePoint Retrieve Attachment Contents Checklist is displayed.
  3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
  4. In the Checklist, click Configure. Click Browse. The List Selection Dialogue is displayed with Lists of only supported base templates which includes base template id as 100, 105 and 120. Select a List and Click OK.
  5. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
  6. Create a map between the orchestration variables and the input parameter of the activity.
- Mandatory Fields:
- o itemId (id of the item to retrieve the contents of attachments)
  - o filename (name of the file attached to the item)

#### Sample Input Request

```
<?xml version="1.0" encoding="UTF-8"?>
<RetrieveAttachmentContents
  xmlns="http://www.IBM.com/xmlns/prod/websphere/j2ca/Sharepoint/retrieveattachmentcontents">
  <RetrieveAttachmentContentsRequestDetails xmlns="">
    <itemId>4</itemId>
    <fileName>test123.txt</fileName>
  </RetrieveAttachmentContentsRequestDetails>
</RetrieveAttachmentContents>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Retrieve Attachment Contents activity.

Note:

You can retrieve multiple attachments content at one go using this activity since the input variable is unbounded.

**Parent topic:** [MS SharePoint Activities](#)

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[Feedback](#) | [Notices](#)

 Last updated: Monday, 6 March 2017

file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MSSharePoint\\_retrieve\\_attachment\\_content\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MSSharePoint_retrieve_attachment_content_activity.html)

## Using the MS SharePoint Delete Attachments Activity

---

Use the Delete Attachments activity to delete attachments of list item for existing lists in MS SharePoint.

### About this task

---

Use this task to delete attachments of list item for existing lists in MS SharePoint instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.

2. Drag the newly created MS SharePoint endpoint to the orchestration and select Delete Attachments activity. The Delete Attachments activity will be added to the orchestration. Double click the activity. The MS SharePoint Delete Attachments Checklist is displayed.
  3. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for MS SharePoint REST API activities](#).
  4. In the Checklist, click Configure. Click Browse. The List Selection Dialogue is displayed with Lists of only supported base templates which includes base template id as 100, 105 and 120. Select a List and Click OK.
  5. Select the Map Inputs in the Checklist. The XML Schemas generated from that operation are displayed as nodes under the request input parameter in the To Activity panel.
  6. Create a map between the orchestration variables and the input parameter of the activity.
- Mandatory Fields:**
- o itemId (Id of the item for which user wants to delete an attachment)
  - o filename (name of the file attached to the item)

#### Sample Input Request

```
<?xml version="1.0" encoding="UTF-8"?>
<DeleteAttachments
  xmlns="http://www.IBM.com/xmlns/prod/websphere/j2ca/Sharepoint/deleteattachments">
  <DeleteAttachmentsRequestDetails xmlns="">
    <itemId>4</itemId>
    <fileName>test123.txt</fileName>
  </DeleteAttachmentsRequestDetails>
</DeleteAttachments>
```

Note: Values must be provided at run time for the mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MS SharePoint Delete Attachments activity.

Note:

You can delete multiple attachments at one go using this activity since the input variable is unbounded.

#### Limitation for Custom Fields for a List:

Even though SharePoint supports custom fields starting with a digit or having space in field names, Cast Iron Studio will fail to support them. This holds true for CRUD activities for List Items and Attachments activities.

Note:

If there is a change in schema (for example the list is changed from Configure section) the default values set for previous lists are retained for the fields in Map Inputs. It is advisable to do the mapping again in this case whenever the list is changed.

Note regarding Expand occurrences functionality:

There is a discrepancy in populating the Map Input section of the CRUD activities when user selects the Expand Occurrences option for a recurring node. The details of the same are mentioned in the below link:

<https://developer.ibm.com/answers/questions/251002/reselecting-the-same-objectfor-which-expand-occure.html#answer-251011>.

**Parent topic:** [MS SharePoint Activities](#)

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[Feedback](#) | [Notices](#)

>Last updated: Monday, 6 March 2017  
file:///dcs/markdown/workspace/Transform/out.html

## Specifying the Retry options for MS SharePoint REST API activities

---

Specifying the Retry parameters is one of the tasks to configure a MS SharePoint activity. The MS SharePoint REST API connector uses a single login session for all connections to an MS SharePoint REST API endpoint. If a session expires, the connector automatically establishes a new session. The connector does not count the initial attempt to reacquiring the session as a retry attempt. The connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails.

### About this task

---

This section contains the procedure for configuring the Retry options for MS SharePoint API activities.

### Procedure

---

1. Select the Retry task from the Checklist. The retry pane is displayed.
2. Configure the retry and timeout options for connecting to an MS SharePoint instance, as described in the following table:

Table 1. Retry options

Retry Fields	Description
Wait __ seconds between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the MS SharePoint instance.
Retry __ times before failing.	Specifies the retry count – the maximum number of times the Integration Appliance attempts to establish a connection to the MS SharePoint instance before issuing an error and stopping the processing of the current orchestration job. Note: If you deploy an orchestration that contains the MS SharePoint REST API activity and the Integration Appliance cannot connect to the specified MS SharePoint instance, the Integration Appliance logs the connections errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3, the first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.
Stop processing rest of the records of the batch if failure detected even after the configured no. of retries.	Specifies that if a batch of records is sent as input to an orchestration, and if failure is detected in between, then the remaining records should be processed or not. For example, if the retry count is set to 3 and a batch of 5 records is sent as input to the orchestration. If, after processing the 1st record of batch, the Integration Appliance cannot connect to the specified MS SharePoint instance even after configured number of retries i.e. 3 retry attempts, then the processing of the remaining 4 records will not be done and execution will be terminated if this option is selected. For the similar settings, if this option is not selected, then the remaining 4 records would be attempted to be processed.

**Parent topic:** [MS SharePoint Activities](#)

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[Feedback](#) | [Notices](#)

 Last updated: Monday, 6 March 2017  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MSSharePoint\\_Specifying\\_Retry\\_options\\_for\\_MSSharePoint\\_REST\\_API\\_activities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MSSharePoint_Specifying_Retry_options_for_MSSharePoint_REST_API_activities.html)

## MS Dynamics CRM Activities

---

- [Creating and editing the MSDynamics CRM endpoint](#)  
MSDynamics CRM endpoints contain the connection information that Studio and the Integration Appliance use to connect to the MSDynamics CRM server. You can create multiple endpoints that refer to separate instances.
- [Using the MSDynamics CRM Create activity](#)  
Use the MSDynamics CRM Create activity to create entities such as Account, Contact, Lead, Opportunity, Product, Quote, Invoice, Order, Records, and so on, in the MSDynamics CRM server.
- [Using the MSDynamics CRM Update activity](#)  
Use the MSDynamics CRM Update activity to update entities such as Account, Contact, Lead, Opportunity, Product, Quote, Invoice, Order, Records, and so on in the MSDynamics CRM server.
- [Using the MSDynamics CRM Delete activity](#)  
Use the MSDynamics CRM Delete activity to delete entities such as Account, Contact, Lead, Opportunity, Product, Quote, Invoice, Order, Records, and so on from the MSDynamics CRM server.
- [Using the MSDynamics CRM Retrieve activity](#)  
Use the MSDynamics CRM Retrieve activity to retrieve entities from the MSDynamics CRM server.
- [Specifying retry parameters for MSDynamics CRM activities](#)  
Specifying the retry parameters is one of the tasks you must complete to configure a MSDynamics CRM activity.

#### [Feedback | Notices](#)

>Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_MSDynamicsactivities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_MSDynamicsactivities.html)

## Creating and editing the MSDynamics CRM endpoint

MSDynamics CRM endpoints contain the connection information that Studio and the Integration Appliance use to connect to the MSDynamics CRM server. You can create multiple endpoints that refer to separate instances.

### About this task

Use this task to create or edit a MSDynamics CRM endpoint. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

Note:

Any changes you make to the MSDynamics CRM endpoint, including configuration properties, affects all the orchestrations that use that endpoint, as the edits are global, not local.

To create and edit a MSDynamics CRM endpoint, complete the following steps:

### Procedure

1. Drag an activity from the MSDynamics CRM folder under the Activities tab, to the Orchestration window. The Summary panel is displayed.
2. Click Pick Endpoint from the Checklist. The Pick Endpoint panel is displayed.
3. Click one of the following buttons:
  - a. **Browse** - To select an existing endpoint from Project Explorer. The Project Explorer shows all the endpoints in the project available for the activity. When you select an endpoint, the endpoint properties are displayed in the Pick Endpoint panel.
  - b. **New** - To create a new endpoint. The Create Endpoint window opens.
  - c. **Edit** - To edit the existing endpoint. The Edit Endpoint window opens.
4. In the Create Endpoint window, complete the fields defined in the following table:

Table 1. Connection details

Field Name	Description
<b>Login Details</b>	
User Name	Specifies the user name to connect to the MSDynamics online CRM server.
Password	Specifies the password associated with the user name to connect to the MSDynamics online CRM server.

Field Name	Description
<b>Service Details</b>	
Organization Unique Name	Specifies the name provided by MSDynamics Online CRM for the organization. You can locate the organization unique name under the developer resources in the MSDynamics CRM online portal.
Discovery Service	Specifies the discovery service URL provided by MSDynamics Online CRM. Currently, the value is defaulted for the Asia/Pacific geography. You can locate this URL under the developer resources in the MSDynamics CRM online portal.
Organization Service	Specifies the organization service URL provided by MSDynamics Online CRM. When you click the discover organization button, the organization service URL will be populated automatically using the discovery service and organization unique name values. Else, you can edit it manually. You can also locate the organization service under the developer resources in the MSDynamics CRM online portal.
<b>Authentication Details</b>	
Claims Based	This is the only authentication mechanism supported.
<b>Connection Timeout</b>	
Timeout after _____ seconds when establishing connection to the endpoint	Specifies the number of seconds before a time-out occurs between the activity making a request on an endpoint and the time it takes the endpoint to respond. By default this parameter is set to 300 seconds.
<b>Proxy connection details</b>	
Connect via a Proxy Server	Select this check box to enable the fields to connect through a proxy server.
Authentication	Indicates the type of authentication that the Integration Appliance uses when connecting to a proxy server. From the list, select one of the following authentication options: <ul style="list-style-type: none"> <li>o <b>Basic</b> - Sends the user name and password you specify unencrypted to the server. This authentication schema is the least secure.</li> <li>o <b>NTLM</b> - Requires an instance of NTCredentials to be available for the domain name of the server. This authentication is the most secure authentication option. When you choose the NTLM authentication option, the Integration Appliance authenticates a connection and not a request; therefore, the Integration Appliance authenticates every time that a new connection is made. The connection must remain open during the authentication process. You cannot use NTLM to authenticate with both a proxy and server.</li> </ul>
Realm/Domain	If you select the <b>Basic</b> authentication option, specify a realm. If you select the <b>NTLM</b> authentication option, specify a domain.
Host Name	Specify the host name of the proxy server.
Port	Specify the port number that is required to connect to the proxy server.
User Name	Specify the user name that is required to connect to the proxy server.
Password	Specify the password that is required to connect to the proxy server.

5. When finished, click Test Connection to confirm that you can connect to the MSDynamics CRM system.

6. Click OK.

## Results

You have created or edited a MSDynamics CRM endpoint.

**Parent topic:** [MS Dynamics CRM Activities](#)

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# Using the MSDynamics CRM Create activity

---

Use the MSDynamics CRM Create activity to create entities such as Account, Contact, Lead, Opportunity, Product, Quote, Invoice, Order, Records, and so on, in the MSDynamics CRM server.

## About this task

---

Use this task to create entities in the MSDynamics CRM server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MSDynamics CRM Create activity, complete the following steps:

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the MSDynamics CRM folder contents.
2. Drag the Create activity icon onto the orchestration. The MSDynamics CRM Create Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MSDynamics CRM endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing the MSDynamics CRM endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the entity type. The Browse MSDynamics CRM entities window is displayed.
11. In Browse MSDynamics CRM entities window, you can either filter the entity type by searching for the entity, or select the entity type from the entity type list. Click Finish.
12. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry parameters for MSDynamics CRM activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected entity of the Create activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MSDynamics CRM Create activity.

**Parent topic:** [MS Dynamics CRM Activities](#)

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# Using the MSDynamics CRM Update activity

---

Use the MSDynamics CRM Update activity to update entities such as Account, Contact, Lead, Opportunity, Product, Quote, Invoice, Order, Records, and so on in the MSDynamics CRM server.

## About this task

---

Use this task to update entities in the MSDynamics CRM server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MSDynamics CRM Update activity, complete the following steps:

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the MSDynamics CRM folder contents.
2. Drag the Update activity icon onto the orchestration. The MSDynamics CRM Update Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MSDynamics CRM endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing the MSDynamics CRM endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the entity type. The Browse MSDynamics CRM entities window is displayed.
11. In Browse MSDynamics CRM entities window, you can either filter the entity type by searching for the entity, or select the entity type from the entity type list. Click Finish.
12. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry parameters for MSDynamics CRM activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Update Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MSDynamics CRM Update activity.

**Parent topic:** [MS Dynamics CRM Activities](#)

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## Using the MSDynamics CRM Delete activity

---

Use the MSDynamics CRM Delete activity to delete entities such as Account, Contact, Lead, Opportunity, Product, Quote, Invoice, Order, Records, and so on from the MSDynamics CRM server.

## About this task

---

Use this task to delete entities from the MSDynamics CRM server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MSDynamics CRM Delete activity, complete the following steps:

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the MSDynamics CRM folder contents.
2. Drag the Delete activity icon onto the orchestration. The MSDynamics CRM Delete Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MSDynamics CRM endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing the MSDynamics CRM endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the entity type. The Browse MSDynamics CRM entities window is displayed.
11. In Browse MSDynamics CRM entities window, you can either filter the entity type by searching for the entity, or select the entity type from the entity type list. Click Finish.
12. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry parameters for MSDynamics CRM activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Delete activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MSDynamics CRM Delete activity.

**Parent topic:** [MS Dynamics CRM Activities](#)

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## Using the MSDynamics CRM Retrieve activity

---

Use the MSDynamics CRM Retrieve activity to retrieve entities from the MSDynamics CRM server.

### About this task

---

Use this task to retrieve entities in the MSDynamics CRM server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the MSDynamics CRM Retrieve activity, complete the following steps:

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the MSDynamics CRM folder contents.
2. Drag the Retrieve activity icon onto the orchestration. The MSDynamics CRM Retrieve Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.

5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant MSDynamics CRM endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing the MSDynamics CRM endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the entity type. The Browse MSDynamics CRM entities window is displayed.
11. In Browse MSDynamics CRM entities window, you can either filter the entity type by searching for the entity, or select the entity type from the entity type list. Click Finish.
12. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry parameters for MSDynamics CRM activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Retrieve activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the MSDynamics CRM Retrieve activity.

**Parent topic:** [MS Dynamics CRM Activities](#)

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## Specifying retry parameters for MSDynamics CRM activities

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Specifying the retry parameters is one of the tasks you must complete to configure a MSDynamics CRM activity.

### About this task

---

The MSDynamics CRM connector connects to the MSDynamics CRM server to execute the activities. If a connection is lost or timed out, the connector automatically establishes a new connection based on the parameters described in Table 1. The connector does not count the initial attempt to reacquiring the session as a retry attempt. The connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails.

For more information about the configuration tasks in the Checklist, see the help topic for the specific MSDynamics CRM activity.

To specify the retry parameters, complete the following steps:

### Procedure

---

1. In the Checklist, select Retry. The Retry panel is displayed.

2. Configure the retry options for connecting to the MSDynamics CRM server.

The following table describes the retry options for connecting to the MSDynamics CRM server:

Table 1. Retry options

Retry Fields	Description
--------------	-------------

Retry Fields	Description
Wait __ second(s) between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the MSDynamics CRM server. By default, this parameter is set to 30 seconds.
Try to connect __ times before failing.	Specifies the maximum number of times that the Integration Appliance attempts to establish a connection to the MSDynamics CRM server before issuing an error and stopping the processing of the current orchestration job. By default this parameter is set to 5 attempts.
<b>Activity Timeout</b>	
Time out after __ second(s) when the endpoint does not respond to a request.	Specifies the number of seconds the Integration Appliance waits before timing out, when the endpoint does not respond to a request. The default is 300 seconds.

## Results

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You have configured the retry parameters for MSDynamics CRM activities.

**Parent topic:** [MS Dynamics CRM Activities](#)

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## MQ Activities

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- [Creating or editing a MQ Activity endpoint](#)

MQ activities handle flat file, XML, or raw messages to or from an MQ queue. The MQ system handles routing of messages through the network of queues. All three of the MQ activities, MQ Get Message, MQ Poll Queue, and MQ Put Message use the same endpoint creation dialog box.

- [Installing JAR files to connect to the MQ system](#)

To connect to the MQ system from Studio, you must have the MQ connector-specific JAR files on the same workstation as your Studio installation. These files must be present in Studio to enable configuration of the endpoints and orchestrations.

- [Defining and loading an XML schema for a MQRFH2 header](#)

To include additional metadata or parameters in an MQ message, you must define an MQRFH2 header that defines the your parameters. Typically, these parameters are specific to an application but do not occur in the data of the message itself.

- [MQ Get Message activity](#)

Use the MQ Get Message activity retrieves messages from an MQ queue during run time.

- [MQ Put Message activity](#)

Use the MQ Put Message activity sends a message to the specified queue during run time.

- [MQ Poll Queue activity](#)

Use the MQ Poll Queue activity periodically checks the MQ Queue for messages based on a specified retry interval during runtime.

- [MQRFH2 XML data and schema examples](#)

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## Creating or editing a MQ Activity endpoint

---

MQ activities handle flat file, XML, or raw messages to or from an MQ queue. The MQ system handles routing of messages through the network of queues. All three of the MQ activities, MQ Get Message, MQ Poll Queue, and MQ Put Message use the same endpoint creation dialog box.

## Before you begin

For MQ activities to be fully functional, ensure that the Queue Manager, Channel Name, and other queue names are configured correctly. For more information on MQ configuration, see WebSphere MQ Help.

## Procedure

1. Drag an MQ connection activity from the Activities tab onto the orchestration.

The Summary panel is displayed along with a Checklist which outlines what you must do to configure the activity.

2. Click Endpoint from the Checklist and select one of the following options:

- o Browse to add an endpoint from the endpoint repository. Once added, you can click Edit to edit it.  
Note: Editing an endpoint affects all orchestrations that use it. The edits are global, not local.
- o New to create a new endpoint.
- o Edit to edit the existing endpoint.

The Create Endpoint panel is displayed.

3. Fill in the fields defined in the following table.

4. Click OK when finished.

Table 1. Queue Manager Details

Field	Description
Location	Â
Host Name	Specifies the host name for the MQ Queue Manager.
Port	Specifies the port number to connect to the Queue Manager. Defaults to 1414, the default for Queue Managers.
Queue Manager	Specifies the name of the Queue Manager to connect to. The name can have a maximum length of 48 characters.
Channel Name	Specifies the channel name to use to connect to the Queue Manager. The name can have a maximum length of 20 characters.
Login	
User Name	User name for the account used to connect to the Queue Manager. The name has a maximum length of 12 characters. This account must be defined in the mqm group in MQ
Â	Note: For some of the fields in the endpoint, you can <a href="#">define configuration properties</a> to supply the values for these fields. Â The  icon is displayed when you click in a field that supports a configuration property and a configuration property of the same type has already been configured for the project.
Connection Pool Options	(Default values are provided for the connection pool options, but can be changed.)
Minimum Connections	Specifies the number of connections in the connection pool that the Integration Appliance always keeps open. Specifying 0 is supported.
Maximum Connections	Specifies the maximum number of connections that the Integration Appliance has open in the connection pool. If you change the default value, the value must be greater than or equal to the value specified for Minimum Connections. Valid values are 1 - 50. If you enter a value greater than 50, the value is reset to 50.

Field	Description
Maximum Idle Time	Specifies the amount of time that a connection can be open and idle before being closed by the Integration Appliance. Specifying 0 means that the connections are closed when they are returned to the pool —no idle time.

**Parent topic:** [MQ Activities](#)

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## Installing JAR files to connect to the MQ system

To connect to the MQ system from Studio, you must have the MQ connector-specific JAR files on the same workstation as your Studio installation. These files must be present in Studio to enable configuration of the endpoints and orchestrations.

### About this task

The two JAR files to be installed for WebSphere MQ version 5.x and 6.x are:

- connector.jar
- com.ibm.mq.jar

### Procedure

1. Open Studio, select Tools > Install Module Providers.
2. When the Add Provider(s) dialog box is displayed, click the plus (+) button under MQ Connector. A field and a Browse button is displayed.
3. Click Browse, and use the browse dialog box to locate and select both the JAR files.
4. Click Open to import the contents of the JAR files.
5. When the JAR files are listed in the Add Providers dialog box, click OK.

### Results

A prompt is displayed to restart Cast Iron Studio and activate the changes.

Note: You must manually restart Studio after it shuts down to apply the changes.

### What to do next

You can now create MQ connector endpoints and orchestrations.

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## Defining and loading an XML schema for a MQRFH2 header

To include additional metadata or parameters in an MQ message, you must define an MQRFH2 header that defines the your parameters. Typically, these parameters are specific to an application but do not occur in the data of the message itself.

## About this task

---

Each parameter, which MQ calls a folder, is passed as an XML fragment along with other MQRFH2 header data. Each parameter can have its own unique XML structure.

Because the Integration Appliance works with XML messages, each of these parameter fragments must be extracted from the MQRFH2 header. The fragments are consolidated into one fragment and passed as the MQRFH2 parameter to the Integration Appliance.

To make these parameters accessible, both Studio and the Integration Appliance need access to an XML Schema that defines the structures of all the parameters. Complete the following procedure to create that XML Schema and load it into the project.

## Procedure

---

1. Create an XML Schema that defines the parameters of your MQRFH2 header using an XML Schema editor or text editor. For an example XML Schema, see [MQRFH2 XML data and schema examples](#). Your XML Schema must be customized for your application's parameters.  
Create the XML Schema according to the following guidelines:
  - o Define the consolidated structure as a single `NameValueData` element.
  - o List all the parameters, in the order they occur in the MQRFH2 header, as elements inside `NameValueData` element.
  - o Parameter names must be unique.
  - o Parameter, group, and property names must be valid XML names. See the XML specification or MQ documentation for more information.
  - o Each parameter must be wrapped in a single element. MQ documentation refers to this parameter element as a folder.
  - o Parameters may contain properties, groups, or both.
  - o Groups and properties may repeat.
  - o Groups can nest inside other groups.
  - o Properties must be defined as type `MQRFHQPropertyType`.
2. Add this XML Schema to the project. See [Uploading Files into a Project](#) for more information.
3. The XML Schema is now available in the Browse for Schema Type Element dialog box. In the Configure pane of the MQ activities, this dialog box appears when you click the Schema Fragment for MQRFH2 Header check box and then click [...]. In the Browse For Schema Type Element dialog box find the XML Schema that defines the header, select `NameValueData` element in that XML Schema, and click OK.

**Parent topic:** [MQ Activities](#)

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## MQ Get Message activity

---

Use the MQ Get Message activity retrieves messages from an MQ queue during run time.

Note: You must have [created an endpoint for the MQ activity](#) before configuring the activity.

The Configure task has three sections:

- [Queue and Message details](#) - where you specify properties for queue and message details.
- [Delivery rules](#) - where you specify how you want messages delivered.
- [Retry options](#) - where you specify how long to wait between retries and the number of time to retry before failing.

After completing the Configure tasks, [Mapping inputs](#) and [Mapping outputs](#) of the activity.

Note: The maximum message size is 100 MBytes.

## Queue and Message details

Specify the Queue and Message details for the fields in the following table. Required fields are marked with an asterisk.

Field	Description
Queue Name *	Specifies the name of the MQ queue where Integration Appliance attempts to retrieve the message from.
Timeout	<p>The number of seconds before a timeout occurs between the MQ Get Message activity requesting to retrieve a message from the queue and the time it takes for the message to be returned. If this timeout period expires and no message is returned from the queue, the Integration Appliance waits the specified retry time before attempting to retrieve a message again. For a detail explanation of the timeouts and retry options, see <a href="#">Timeout and Retry options</a>.</p> <p>To specify the number of seconds that the Integration Appliance should wait before issuing a timeout, select the After option and enter the number seconds in the Seconds field. By default the Never option is selected, this option specifies the Integration Appliance waits indefinitely to retrieve a message from the queue – there is no timeout period.</p>
Payload Data Type	Specifies the datatype of the message payload, either binary or string.
Schema Fragment for MQRFH2 Header	<p>Specifies if an MQRFH2 header is included in the message. If the message includes a MQRFH2 header, select this check box and click [...]. In the Browse For Schema Type Element dialog box to find the XML Schema that defines the header, select the NameValueData element in that XML Schema, and click OK. The schema fragment is the NameValueData element and all its child elements.</p> <p>Note: The XML Schema that defines the header must first be created and loaded into the project before you can select it. For more information see <a href="#">Defining and loading an XML schema for a MQRFH2 header</a>.</p>

## Delivery rules

Field	Description
Deliver Messages	<p>The options available here depend on whether the Unique ID's checkbox is selected. If selected, all three options are available. If not, only At Least Once is displayed.</p> <ul style="list-style-type: none"> <li>At least once - Specifies that the message is delivered at least once but can be delivered more than once. Connection or Integration Appliance failures can result in messages being retrieved and processed more than once. This delivery option is typically used when the receiving system can detect or tolerate duplicate messages.</li> <li>At most once - Specifies the message is delivered only once or not at all. Connection or Integration Appliance failures can result in messages being missed. This delivery option is typically used when the receiving system cannot tolerate duplicate messages but can tolerate lost messages.</li> <li>Exactly once - Specifies the message is delivered once and only once. Connection or Integration Appliance failures do not affect delivery with this option. The Integration Appliance uses MQ message IDs to ensure that every message is retrieved and processed exactly once.</li> </ul> <p>Note: If you select the Exactly Once option, you must enable persistence. For more information, see <a href="#">Enabling Persistence</a>.</p>
Where messages have Unique ID's	Specifies if the messages on the queue have unique IDs.

## Retry options

Configure the retry options for getting a message from the MQ queue as described in the following table:

Retry Options	Description
1) Wait --- seconds between	The number of seconds that the Integration Appliance waits before attempting to retrieve a message from the queue. To learn more about how this option relates to the Timeout field in the Configure pane or the timeout input parameter, see <a href="#">Timeout and Retry options</a> .

each retry.	
2) Try to connect --- times before failing.	<p>Specifies the maximum number of times the Integration Appliance attempts to retrieve a message from the queue before issuing an error and stops the processing of the current orchestration job.</p> <p>If you deploy an orchestration that contains an MQ Get Message activity and the Integration Appliance cannot connect to the specified MQ Server or cannot get a message from the queue, the Integration Appliance logs the errors as warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system and orchestration logs and stops processing the current orchestration job.</p> <p>For example, you set the retry count to 3. The first, second, and third errors appear in the system log as warnings. The Integration Appliance logs the fourth error as an error and stops processing the current orchestration job.</p> <p>To learn more about how this option relates to the Timeout field in the Configure pane or the timeout input parameter, see <a href="#">Timeout and Retry Options</a>.</p>

## Mapping inputs

---

1. Select the Map Inputs task in the Checklist. The Retry panel opens.

The input parameters of the activity are displayed in the To Activity panel.

2. All the input parameters of the MQ Get Message activity are optional. If the input parameter listed in the following table are not displayed in the To Activity pane of the Map Inputs panel, select Map > Show Optional Parameters from the toolbar menu or right-click in the To Activity panel and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click on a node in the Map Inputs panel to activate this option.

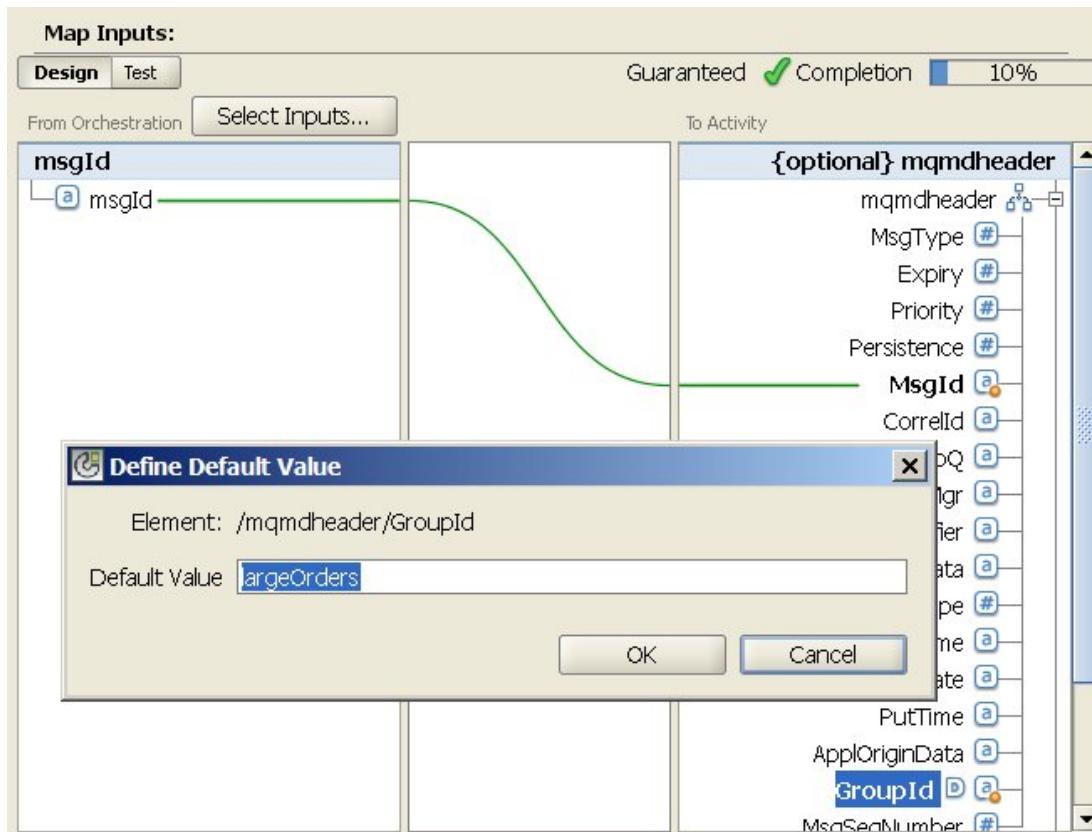
You can constrain the type of message returned by the MQ Get Message activity by mapping any combination of the following nodes of the mqmdheader optional input parameter:

- o mqmdheader/MsgId
- o mqmdheader/CorrelId
- o mqmdheader/GroupId
- o mqmdheader/MsgSeqNumber

During run time, the activity iterates sequentially through the messages in the queue. If nothing is mapped to these nodes, nothing is constrained so the first message in the queue is returned by the MQ Get Message activity and next activity in the orchestration is processed.

If any of these nodes are mapped, during run time the MQ Get Message activity iterates through each message in the queue until it finds the first message that matches the run time values of all the mapped nodes. The first matching message is returned by the MQ Get Message activity and next activity in the orchestration is processed.

For example in the Map Inputs task, mqmdheader/MsgId is mapped to the string called msgId and a default value of largeOrders is specified for the mqmdheader/GroupId as shown in the following figure:



During run time, the MQ Get Message activity returns the first message in the queue that satisfies both of the following conditions:

- The run time value specified of the string variable called `msgId` is equal message ID of the message in the queue.
- The group ID of the message equals `largeOrders`.

You can optionally override the settings you specified for the Queue Name and the Timeout in the Configure task of the Checklist dynamically during run time, using the input parameters defined in the following table.

For example, the MQ queue name can be set in the Configure task to `poqueue`. During run time, the MQ queue name: `newqueue` could be passed into the activity using the `queuename` input parameter. The queue name specified dynamically during run time overrides the original setting specified in the Configure panel. In this example, the Integration Appliance looks at the MQ queue named `newqueue` for messages.

Optional Input Parameters that Override the Settings in the Configure Task

<b>Input Parameter Name/Node</b>	<b>Description</b>	<b>Overrides the Setting in Task?</b>
<code>timeout</code>	Specifies the amount of time that the Integration Appliance waits after requesting to retrieve a message from the queue before retrying.  Specify a negative number to specify no timeout period – the Integration Appliance waits indefinitely to retrieve a message from the queue.  Specifying a negative number is equal to specifying the Never option in the Configure task.	The <code>timeout</code> input parameter overrides the <code>Timeout</code> field of the Configure task.
<code>queuename</code>	Specifies the name of the MQ queue where the Integration Appliance looks for messages.	The <code>queuename</code> input parameter overrides the <code>encoding</code> specified in the <code>Queue Name</code> field of the Configure task.

See [Creating a Map](#) for general instructions on mapping.

## Mapping outputs

You are not required to map the output parameters for this activity. See [Creating a Map](#) for general instructions on mapping.

## Timeout and Retry options

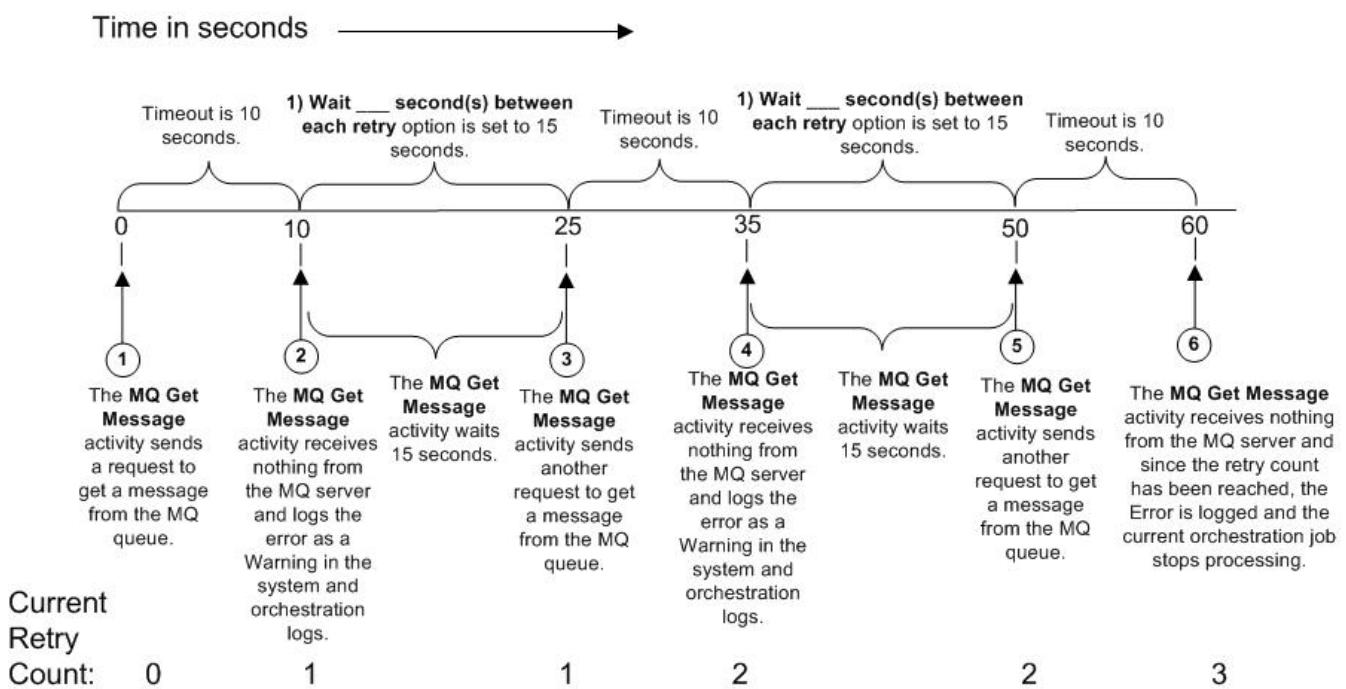
The timeout specified in the Timeout field in the Configure task or the timeout input parameter specifies the number of seconds before a timeout occurs between the MQ Get Message activity requesting to retrieve a message from the queue and the time it takes for the message to be returned. If this timeout period expires and no message is returned from the queue, the Integration Appliance waits the amount of time specified in the 1) Wait \_\_\_\_ second(s) between each retry option before attempting to retrieve a message, again. The Integration Appliance keeps attempting to get the message up to the specified retry count. The retry count is specified with the 2) Try to connect \_\_\_\_ times before failing. The 1) Wait \_\_\_\_ second(s) between each retry and 2) Try to connect \_\_\_\_ times before failing options are specified in the [Retry options](#) task.

For example, a MQ Get Message activity is configured with the following options:

- The Timeout field in the Configure task is set to 10 seconds and the optional timeout input parameter is not mapped and no default value is defined.
  - The 1) Wait \_\_\_ second(s) between each retry option is set to 15 seconds.
  - The 2) Try to connect \_\_\_ times before failing option is set to 2.

During run time, if the MQ Get Message activity is continuously unable to retrieve a message from the queue, as shown in the following figure:

## Time Line



## **Parent topic:** MQ Activities

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MQ\\_Get\\_Message\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MQ_Get_Message_Activity.html)

## MQ Put Message activity

Use the MO Put Message activity sends a message to the specified queue during run time.

Note: You must have [created an endpoint for the MO activity](#) before configuring the activity.

The Configure task has three sections:

- [Queue and Message details](#) - where you specify properties for queue and message details.
- [Delivery rules](#) - where you specify how you want messages delivered.
- [Retry options](#) - where you specify how long to wait between retries and the number of time to retry before failing.

After completing the Configure tasks, and [Mapping inputs](#) for the activity.

Note: The maximum message size is 100 MBytes.

## Queue and Message details

Specify the Queue and Message details using the fields in the following table. Required fields are marked with an asterisk.

Field	Description
Queue Name *	Specifies the name of the queue where the messages are put.
Payload Data Type	Specifies the datatype of the message payload, either binary or string.
Message Type	Datagram - Select if the message should be sent and no reply is needed. Request - Select if the message should have a reply. Be sure to set the Reply to Queue property for request messages. Response - Select if the message is a reply to a previous request.
Reply to Queue	Specifies the queue the reply should be sent to for request messages.
Reply to Queue Manager	Specifies the name of the Queue Manager that the queue (specified in the Reply to Queue field) belongs to.
Persistent	<ul style="list-style-type: none"><li>• True - Messages are restored to queues if the Queue Manager crashes.</li><li>• False - Messages may be lost from the queue if the Queue Manager crashes.</li><li>• Default - Messages use the persistence setting for the queue (this is the default).</li></ul>
Priority	Specifies the priority of the message. By default, the message priority defaults to the default priority for the queue. If the queue uses priorities to order messages and this message should have a specific priority set, select Specify and enter the priority. Priorities can range from 1 (lowest) up to 9 (highest). Note: The priority should not exceed the maximum priority number set for the MQ queue. Check with your MQ system administrator for this information.
Message Expiration	The number of seconds that messages are kept in the queue before expiring. Defaults to Never, which ensures that the message is delivered and waits on the queue until it is retrieved, no matter how long that may take.  If messages for this queue should expire and be discarded after some period of time, select Specify and enter the maximum number of Seconds that the message should be kept in the queue.
Schema Fragment for MQRFH2 Header	Specifies if an MQRFH2 header is included in the message. If the message is an XML message and includes a MQRFH2 header, select this check box and click [...]. In the Browse For Schema Type Element dialog box find the XML Schema that defines the header, select the NameValueData element in that XML Schema, and click OK. The schema fragment is the NameValueData element and all its child elements. Note: The XML Schema that defines the header must first be created and loaded into the project before you can select it. For more information see <a href="#">Defining and loading an XML schema for a MQRFH2 header</a> .

## Delivery rules

Field	Description
Delivery Messages	The options available here are: <ul style="list-style-type: none"><li>• At least once - Specifies that the message is delivered at least once but can be delivered more than once. Connection or Integration Appliance failures can result in messages being retrieved and processed more than once. This delivery option is typically used when the receiving system can detect or tolerate duplicate messages.</li><li>• At most once - Specifies the message is delivered only once or not at all. Connection or Integration Appliance failures can result in messages being missed. This delivery option is typically used when the receiving system cannot tolerate</li></ul>

duplicate messages but can tolerate lost messages.

## Retry options

Configure the retry options for connecting to a MQ Server. The following table describes the retry options for connecting to a MQ Server:

Retry Options	Description
1) Wait --- second(s) between each retry.	The number of seconds that the Integration Appliance waits before attempting to contact the Queue manager to send a message to MQ Server, again.
2) Try to connect --- times before failing.	Specifies the maximum number of times the Integration Appliance attempts to contact the Queue manager to send a message to the MQ Server before issuing an error and stopping the processing of the current orchestration job.  If you deploy an orchestration that contains an MQ Put Message activity and the Integration Appliance cannot connect to the Queue manager of the specified MQ Server, the Integration Appliance logs the errors as warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system and orchestration logs and stops processing the current orchestration job.  For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth error as an error and stops processing the current orchestration job.

## Mapping inputs

You are required to map input parameters for this activity. The following parameter is required and must be mapped in order for the configuration to be complete. All other parameters are optional. See [Creating a Map](#) for more information.

Required Input Parameters:  
payload

To view the optional input parameters in the To Activity panel of the Map Inputs panel, select Map > Show Optional Parameters from the toolbar menu or right-click in the To Activity panel and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click on a node in the Map Inputs panel to activate this option.

**Parent topic:** [MQ Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MQ\\_Put\\_Message\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MQ_Put_Message_Activity.html)

## MQ Poll Queue activity

Use the MQ Poll Queue activity periodically checks the MQ Queue for messages based on a specified retry interval during runtime.

Note: You must have [created an endpoint for the MQ activity](#) before configuring the activity.

The Configure task has three sections:

- [Queue and Message details](#) - where you specify properties for queue and message details.
- [Delivery rules](#) - where you specify how you want messages delivered.
- [Retry options](#) - where you specify how long to wait between retries and the number of time to retry before failing.

After completing the Configure tasks, [Mapping outputs](#) for the activity.

Note: The maximum message size is 100 MBytes.

## Queue and Message details

Specify Queue and Message details for the fields in the following table. Required fields are marked with an asterisk.

Field	Description
Queue Name *	Specifies the name of the queue which is polled for messages.
Payload Data Type	Specifies the datatype of the message payload, either binary or string.
Schema Fragment for MQRFH2 Header	Specifies if an MQRFH2 header is included in the message. If the message is an XML message and includes a MQRFH2 header, select this check box and click [...]. In the Browse For Schema Type Element dialog box find the XML Schema that defines the header, select the <code>NameValueData</code> element in that XML Schema, and click OK. The schema fragment is the <code>NameValueData</code> element and all its child elements. Note: The XML Schema that defines the header must first be created and loaded into the project before you can select it. For more information see <a href="#">Defining and loading an XML schema for a MQRFH2 header</a> .

## Delivery rules

Field	Description
Poll for changes	Specifies how often the Integration Appliance should poll the queue for changes. For more information, see <a href="#">Polling Interval Behavior</a> .
Where messages have Unique ID's	Specifies if the messages on the queue have unique IDs.
Deliver Messages	The options available here depend on whether the Unique ID's checkbox is selected. If selected, all three options are available. If not, only At Least Once is displayed. <ul style="list-style-type: none"><li>• At least once - Specifies that the message is delivered at least once but can be delivered more than once. Connection or Integration Appliance failures can result in messages being retrieved and processed more than once. This delivery option is typically used when the receiving system can detect or tolerate duplicate messages.</li><li>• At most once - Specifies the message is delivered only once or not at all. Connection or Integration Appliance failures can result in messages being missed. This delivery option is typically used when the receiving system cannot tolerate duplicate messages but can tolerate lost messages.</li><li>• Exactly once - Specifies the message is delivered once and only once. Connection or Integration Appliance failures do not affect delivery with this option. The Integration Appliance uses MQ message IDs to ensure that every message is retrieved and processed exactly once. Note: If you select the Exactly Once option, you must enable persistence. For more information, see <a href="#">Enabling Persistence</a>.</li></ul>

## Retry options

Configure the retry options of the MQ Poll Queue activity, as defined in the following table:

Retry Options	Description
1) Wait --- second(s) between each retry.	The number of seconds that the Integration Appliance waits before attempting to retrieve messages from MQ Server, again.
2) Try to	Specifies the maximum number of times the Integration Appliance attempts to retrieve messages from the MQ Server

<p>connect — times before failing.</p>	<p>before failing.</p> <p>If an orchestration that starts with an MQ Poll Queue activity is deployed and the Integration Appliance cannot connect to the specified MQ server or cannot retrieve messages from queue, the Integration Appliance logs the errors as warnings in the system log until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system log, resets the current retry count to zero, and continues to attempt to establish a connection to the MQ server.</p> <p>For example, you set the retry count to 3. The first, second, and third errors appear in the system log as warnings. The Integration Appliance logs the fourth error as an error and resets the current retry count to zero. Therefore, the fifth connection error generates a warning in the system log. The Integration Appliance continues to attempt to retrieve messages from the queue.</p>
--	--

## Mapping outputs

You are not required to map output parameters for this activity. However, if you do map any of these parameters, note the following points:

Parameters:

- payload and mqmdheader parameters are obtained from the message that is received from the queue.
- rfh2header is obtained if the schema for the RFH2 Header is specified in the Configure task.

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## MQRFH2 XML data and schema examples

This section contains the following examples:

- [Example XML data that contains MQRFH2 parameters](#)
- [Example XML Schema that defines MQRFH2 parameters](#)

### Example XML data that contains MQRFH2 parameters

Note the following characteristics about the example XML data:

- ParameterA contains only properties.
- ParameterB contains groups with properties.
- ParameterC contains both a group and a property.
- Property4 repeats several times within groupDtl.

Example XML Data that Contains MQRFH2 Parameters:

```
<?xml version="1.0" encoding="UTF-8"?>
<NameValuePairData>
  <parameterA>
    <property1>value</property1>
    <property2 datatype="nt">345</property2>
  </parameterA>
  <parameterB>
```

```

<groupHeader>
<property3>true</property3>
</groupHeader>
<groupDtl>
<property4>ANR</property4>
<property4>BYC</property4>
<property4>ENN</property4>
</groupDtl>
</parameterB>
<parameterC>
<groupNew>
<property5>01/15/2004</property5>
</groupNew>
<property1>value</property1>
</parameterC>
</NameValuePairData>

```

## **Example XML Schema that defines MQRFH2 parameters**

---

The following example XML Schema defines the three parameters displayed in [Example XML data that contains MQRFH2 parameters](#). The type for all of the property elements: MQRFH2PropertyType, provides the datatype attribute shown on property2 in the preceding example. The MQRFH2PropertyType type also ensures that the elements can contain values.

The repetition for property4 in groupDtl is handled with the minOccurs and maxOccurs attributes. You can also set maxOccurs to unbounded to allow an unlimited number of repetitions.

An Example XML Schema that defines MQRFH2 Parameters:

```

<xsd:schema elementFormDefault="qualified">
  < xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns:rfh="http://www.approuter.com/samples/MQ"
    targetNamespace="http://www.approuter.com/samples/MQ">
    <xsd:complexType name="MQRFH2PropertyType">
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="dt" type="xsd:string" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>
    <xsd:element name="NameValuePairData">
      <xsd:complexType>
        <xsd:sequence>

```

```
<xsd:element name="parameterA">
<xsd:complexType>
<xsd:sequence>
<xsd:element name="property1" type="rfh:MQRFH2PropertyType"/>
<xsd:element name="property2" type="rfh:MQRFH2PropertyType"/>
</xsd:sequence>
</xsd:complexType>
</xsd:element>

<xsd:element name="parameterB">
<xsd:complexType>
<xsd:sequence>
<xsd:element name="groupHeader">
<xsd:complexType>
<xsd:sequence>
<xsd:element name="property3" type="rfh:MQRFH2PropertyType"/>
</xsd:sequence>
</xsd:complexType>
</xsd:element>

<xsd:element name="groupDtl">
<xsd:complexType>
<xsd:sequence>
<xsd:element name="property4" type="rfh:MQRFH2PropertyType" minOccurs="1"
maxOccurs="5"/>
</xsd:sequence>
</xsd:complexType>
</xsd:element>

<xsd:element name="parameterC">
<xsd:complexType>
<xsd:sequence>
<xsd:element name="groupNew">
<xsd:complexType>
<xsd:sequence>
<xsd:element name="property5" type="rfh:MQRFH2PropertyType"/>
</xsd:sequence>
```

```

</xsd:complexType>
</xsd:element>
<xsd:element name="property1" type="rfh:MQRFH2PropertyType"/>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:schema>

```

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MQ\\_MQRFH2\\_Schema\\_Fragment\\_Examples.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/MQ_MQRFH2_Schema_Fragment_Examples.html)

## NetSuite Activities

- [Creating or editing a NetSuite endpoint](#)  
Endpoints provide the NetSuite connection information that Studio and the Integration Appliance use to connect with NetSuite.
- [Add Records activity](#)  
Use the Add Records activity to add one or more new records to NetSuite. Each added record must be uniquely identifiable by its name, type, and hierarchy. If two or more records have the same identifiers, a SOAP fault is posted. The records to be added must be of the same record type.
- [Attach Records activity](#)  
The Attach Records activity can be used to define a relationship between two records. For example, a Contact record can be associated with a Vendor record. A Contact record can be associated with all entity records except for other Contact records and Group records.
- [Delete Records activity](#)  
The Delete Records activity can delete one or more records from NetSuite. Each deleted record must be uniquely identifiable by its name, type, and hierarchy. If two or more records have the same identifiers, a SOAP fault is posted. The records to be deleted must be of the same record type.
- [Detach Records activity](#)  
The detach records activity can be used to remove a relationship between two records. For example, a Contact record associated with a Vendor record can be removed. The Detach Records activity can also detach files, such as Word or PDF files, from a NetSuite record.
- [Get Records activity](#)  
The Get Records activity retrieves one or more records based on the records unique IDs. If any of the IDs are invalid, valid IDs are processed and a warning for invalid IDs is sent in the response.
- [Initialize Record activity](#)  
Use the Initialize Record activity to populate a transaction record with input from another related record. For example, you can populate a Sales Order record with input from the related Estimate record before submitting the Sales Order record to NetSuite.
- [Search Records activity](#)  
The Search Records activity searches for a specific record type based on search criteria that you specify.
- [Update Records activity](#)  
The Update Records activity can update one or more records. Only fields that are populated are updated in NetSuite. For fields

that are not populated, the previous value in NetSuite is maintained. If a field is populated with an empty string, the value of the field in NetSuite is replaced with an empty string.

- [Upsert Records Activity](#)

The Upsert Records activity can update a record if the record already exists in the database, or to insert the record if it does not. Only fields that are populated are updated in NetSuite. For fields that are not populated, the previous value in NetSuite is maintained. If a field is populated with an empty string, the value of the field in NetSuite is replaced with an empty string.

- [Troubleshooting and support](#)

Troubleshooting techniques and self-help information help you identify and solve problems quickly. This topic provides potential solutions for issues you would have with the NetSuite connector.

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#### [Feedback | Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_netsuiteactivities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_netsuiteactivities.html)

## Creating or editing a NetSuite endpoint

---

Endpoints provide the NetSuite connection information that Studio and the Integration Appliance use to connect with NetSuite.

### Procedure

---

1. Select an activity from the NetSuite folder of the Activities tab.
2. Drag the activity onto the orchestration.

The Summary panel is displayed along with a Checklist that lists the tasks that must be performed to configure the activity.

3. Click the Endpoint task from the Checklist and choose one of the following options:
  - Browse - To select an existing endpoint from the project.
  - New - To create a new endpoint.
  - Edit - To edit an existing endpoint.

Note: Edits are global, not local. Editing an endpoint affects all orchestrations that use that endpoint in the Project.

4. When the NetSuite endpoint screen is displayed, complete, or edit, the information in the following fields:
  - NetSuite Customer Login - Users are limited to two sessions for each username/password. One session is through the browser and the other session is through Web Services. Attempting a second login through the browser with the same username and password results in the first session terminating. The same scenario applies to attempts to establish two concurrent Web Services sessions. For multiple concurrent Web Services connections, obtain a Web Services Plus license.

Field	Description
Email Address	E-mail address used to login to NetSuite
Password	Password for E-mail address
Account Number	Account number associated with E-mail address

- Login Options - Choose either Login normally or Login in to the specified URL and specified version.

If you purchased the Web Services Concurrent License, click Web Services Plus License.

- Connection Pool Options - Leave the default values or change the values for the Connection Pool Options:

Field	Description
Minimum Connections	The default is 1.
Maximum Connections	The default is 1. If Web Services Plus License (Concurrent Web Services User preference) is selected, the default is 5.
Maximum Idle Time	The maximum number of minutes, the session can remain idle before ending the session. The default is 120 minutes. NetSuite enforces a 120 minute maximum.

Maximum Wait	Maximum Wait The maximum number of seconds to wait for the session to start. The default is 300 seconds.
--------------	--

- Connection Timeout - Use the up and down arrows to select the number of seconds, that you want to wait to establish a connection to the endpoint before ending the attempt.
- Proxy - To use a proxy server to connect with NetSuite, select Connect via a Proxy Server.

For Authentication, click the arrow and choose the mode, either Basic or NTLM.

For Realm, if you choose Basic authentication, you can specify a realm. If you do not specify a realm, the endpoint authenticates to 'any realm'.

Complete the following fields:

Field	Description
Host Name	The name of the proxy server or the IP address of the proxy server.
Port	The port number used by the proxy server to connect with NetSuite.
User Name	The ID used to login to the proxy server.
Password	The password for User Name.

- Update - Use the Update WSDL to\_2011\_1 button to upgrade the NetSuite WSDL. The button is inactive if WSDL\_2011\_1 is already present. After clicking the button, you will be presented with a list of project entities that will be affected by this update. At that point, you can decline to update to WSDL\_2011\_1 or proceed with the update.

Click Test Connection to verify that a connection can be established.

**Parent topic:** [NetSuite Activities](#)

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## Add Records activity

Use the Add Records activity to add one or more new records to NetSuite. Each added record must be uniquely identifiable by its name, type, and hierarchy. If two or more records have the same identifiers, a SOAP fault is posted. The records to be added must be of the same record type.

- [Using the Add Records activity](#)  
To use the Add Records activity complete the following steps.
- [Mapping the inputs for the Add Records activity](#)  
Up can map the Add records task inputs
- [Mapping the outputs for the Add Records activity](#)  
You can map the outputs for the Add Records activity.

**Parent topic:** [NetSuite Activities](#)

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# Using the Add Records activity

---

To use the Add Records activity complete the following steps.

## Procedure

---

1. In the Activities tab, expand the NetSuite directory and locate the Add Records activity.
2. Add the Add Records activity to your orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. In the Checklist, click Pick Endpoint.
4. Select one of the following options:
  - Browse - to select a NetSuite endpoint from the Project Explorer.
  - New - to create a new NetSuite endpoint using the Create Endpoint dialog.  
For instructions on creating a NetSuite endpoint, see [Creating or editing a NetSuite endpoint](#).
  - Edit - to edit an existing NetSuite endpoint using the Edit Endpoint dialog.  
For instructions on editing a NetSuite endpoint, see [Creating or editing a NetSuite endpoint](#).  
Note: Edits are global, not local. Editing an endpoint affects all orchestrations that use that endpoint in the project.
5. In the Checklist, click Configure.
6. Click Browse to display the Browse NetSuite dialog.
7. In the Browse NetSuite dialog, click Show Record Types and select one of the following options:
  - All – to view all record types.
  - Only Custom – to view only custom records.
  - Only Standard – to view only standard NetSuite record types.

Note: To use custom records, you must enter the internal ID in the recType/internalId node.
8. To view custom fields in standard records, select the Generate custom fields for standard record types checkbox.  

This option does not apply to custom record types. The state of the checkbox is saved.
9. In the Browse NetSuite dialog, select a record type by completing one of the following tasks:
  - Enter the first few letters of a record type in the Search for a Record Type field, select the record type in the Record Type scroll list and then click Select.
  - Scroll through the Record Type scroll list until you find the required record type, click the record type, and then click Select.
10. To refresh the maps in NetSuite, in the Configure pane, click Refresh after the record type is set.
11. In the Checklist, click Retry.
12. In the Retry section:
  - Set the number of seconds, between each retry to connect with NetSuite. The default is 30 seconds.
  - Set the number of times you want to retry before failing. The default is 5 times.

In the Activity Timeout section:

  - Set the Activity Timeout, the number of seconds, to wait when the endpoint does not respond to a request. The default is 300 seconds.
13. Mapping inputs. See [Mapping the inputs for the Add Records activity](#) for more information.
14. Mapping outputs. See [Mapping the outputs for the Add Records activity](#) for more information.

**Parent topic:** [Add Records activity](#)

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## Mapping the inputs for the Add Records activity

---

Up can map the Add records task inputs

## About this task

---

To map the inputs for the add records activity, complete the following steps.

## Procedure

---

1. In the Checklist, click the Map Inputs task.
2. Click Select Inputs... and select the input variables for the map.

For instructions on how to create variables, see [Creating Variables](#).

3. Map the elements in the From Orchestration pane to the NetSuite elements in the To Activity pane.

The elements in the To Activity pane are determined by the NetSuite record type you selected in the Configure task. For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Add Records activity](#)

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## Mapping the outputs for the Add Records activity

---

You can map the outputs for the Add Records activity.

## About this task

---

To map the outputs for the add records activity, complete the following steps.

## Procedure

---

1. In the Checklist, click the Map Outputs task.
2. Click Copy.
3. Select addListResponse. Click Create to copy from the Activity panel to the Orchestration panel.

**Parent topic:** [Add Records activity](#)

---

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## Attach Records activity

---

The Attach Records activity can be used to define a relationship between two records. For example, a Contact record can be associated with a Vendor record. A Contact record can be associated with all entity records except for other Contact records and Group records.

## About this task

---

The Attach Records activity can also attach files, such as Word or PDF files, to a NetSuite record. Any file that is in the NetSuite file cabinet can be attached to any record except for custom records.

The following list describes the nodes for the Attach Records activity in the Checklist > Map Inputs > To Activity panel:

- {RecordRef} attachTo - this node specifies the record to which the attachment is attached.
  - @type – In the Define Default Value, select the type of record.
  - @externalId – Either externalId or internalId must be specified for the RecordRef.
  - @internalID – Either externalId or internalId must be specified for the RecordRef.
- contact – This node specifies the record to associate with or the file to attach to the attachTo record.
  - @internalID – Either externalId or internalId must be specified for the RecordRef.
  - @externalId – Either externalId or internalId must be specified for the RecordRef.
  - @type – In the Define Default Value, select the type of record.
  - name – Enter the name of the contact or the file name.
- contactRole – This node specifies the role in the user defined Contact List located in the NetSuite UI at List > Relationships > Contacts.
  - exists – a Boolean used to indicate whether the Contacts List exists or not.
  - @internalID – Either externalId or internalId must be specified for the role.
  - @externalId – Either externalId or internalId must be specified for the role.
  - name – The title of the role such as Primary Contact.
- [Using the Attach Records activity](#)  
To use the Attach Records activity, complete the following steps:
- [Mapping the inputs for the Attach Records activity](#)  
To map the inputs for the Attach Records activity, complete the following steps.
- [Mapping the outputs for the Attach Records activity](#)  
To map the outputs for the Attach Records activity, complete the following steps.

**Parent topic:** [NetSuite Activities](#)

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## Using the Attach Records activity

---

To use the Attach Records activity, complete the following steps:

### Procedure

---

1. In the Activities tab, expand the NetSuite directory and locate the Attach Records activity.
2. Add the Attach Records activity to your orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. In the Checklist, click Pick Endpoint.
4. Select one of the following options:
  - Browse - to select a NetSuite endpoint from the Project Explorer.
  - New - to create a new NetSuite endpoint using the Create Endpoint dialog.

For instructions on creating a NetSuite endpoint, see [Creating or editing a NetSuite endpoint](#).

- Edit - to edit an existing NetSuite endpoint using the Edit Endpoint dialog.

For instructions on editing a NetSuite endpoint, see [Creating or editing a NetSuite endpoint](#).

Note: Edits are global, not local. Editing an endpoint affects all orchestrations that use that endpoint in the project.

5. In the Checklist, click Configure.
6. Click Configure to open the Attach Reference Activity Wizard.
7. Click Browse.
8. Select the record you want to attach and click Attach.

9. Click Next.
10. Select the record to which you want to attach the attachment record and click Select.
11. Click Finish.
12. In the Checklist, click Retry.
13. In the Retry section:
  - o Set number of seconds, between each retry to connect with NetSuite. The default is 30 seconds.
  - o Set the number of times you want to retry before failing. The default is 5 times.
- In the Activity Timeout section:
  - o Set the Activity Timeout, in seconds, you want to wait when the endpoint does not respond to a request. The default is 300 seconds.
14. Map inputs. See [Mapping the inputs for the Attach Records activity](#) for more information.
15. Map outputs. See [Mapping the outputs for the Attach Records activity](#) for more information.

**Parent topic:** [Attach Records activity](#)

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## Mapping the inputs for the Attach Records activity

---

To map the inputs for the Attach Records activity, complete the following steps.

### Procedure

---

1. In the Checklist, click the Map Inputs task.
  2. Click Select Inputs... and select the input variables for the map.
- For instructions on how to create variables, see [Creating Variables](#).
3. Map the elements in the From Orchestration panel to the NetSuite elements in the To Activity panel.

The elements in the To Activity panel are determined by the NetSuite record type you selected in the Configure task. For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Attach Records activity](#)

---

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## Mapping the outputs for the Attach Records activity

---

To map the outputs for the Attach Records activity, complete the following steps.

### Procedure

---

1. In the Checklist, click the Map Outputs task.
2. Click Copy.
3. Select either or both addListResponse or headers and click Create to copy your choices from the Activity panel to the Orchestration panel.

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## Delete Records activity

---

The Delete Records activity can delete one or more records from NetSuite. Each deleted record must be uniquely identifiable by its name, type, and hierarchy. If two or more records have the same identifiers, a SOAP fault is posted. The records to be deleted must be of the same record type.

- [Using the Delete Records activity](#)

To use the Delete Records activity, complete the following steps:

- [Mapping the inputs for the Delete Records activity](#)

To map the inputs for the delete records activity, complete the following steps.

- [Mapping the outputs for the Delete Records activity](#)

To map the outputs for the delete records activity, complete the following steps.

**Parent topic:** [NetSuite Activities](#)

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## Using the Delete Records activity

---

To use the Delete Records activity, complete the following steps:

### Procedure

---

1. In the Activities tab, expand the NetSuite directory and locate the Delete Records activity.
2. Add the Delete Records activity to your orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. In the Checklist, click Pick Endpoint.

4. Select one of the following:

- Browse - to select a NetSuite endpoint from the Project Explorer.
- New - to create a new NetSuite endpoint using the Create Endpoint dialog.

For instructions on creating a NetSuite endpoint, see [Creating or editing a NetSuite endpoint](#).

- Edit - to edit an existing NetSuite endpoint using the Edit Endpoint dialog.

For instructions on editing a NetSuite endpoint, see [Creating or editing a NetSuite endpoint](#).

Note: Edits are global, not local. Editing an endpoint affects all orchestrations that use that endpoint in the project.

5. In the Checklist, click Configure.

6. Click Browse to display the Browse NetSuite dialog.

7. In the Browse NetSuite dialog, click Show Record Types and select one of the following options:

- All – to view all record types.
- Only Custom – to view only custom records.

- Only Standard “ to view only standard NetSuite record types.

Note: To use custom records, you must enter the internal ID in the recType/internalId node.

- To view custom fields in standard records, select the Generate custom fields for standard record types checkbox.

This option does not apply to custom record types. The state of the checkbox is saved.

- In the Browse NetSuite dialog, choose a record type by performing one of the following tasks:

- Enter the first few letters of a record type in the Search for a Record Type field, select the record type in the Record Type scroll list and then click Select.
- Scroll through the Record Type scroll list until you find the record type you want, click the record type, and then click Select.

- To refresh the maps in NetSuite, in the Configure pane, click Refresh after the record type is set.

- In the Checklist, click Retry.

- In the Retry section:

- Set the number of seconds, between each retry to connect with NetSuite. The default is 30 seconds.
- Set the number of times you want to retry before failing. The default is 5 times.

In the Activity Timeout section:

- Set the Activity Timeout, in seconds, you want to wait when the endpoint does not respond to a request. The default is 300 seconds.

- Map inputs. See [Mapping the inputs for the Delete Records activity](#) for more information.

- Map outputs. See [Mapping the outputs for the Delete Records activity](#) for more information.

**Parent topic:** [Delete Records activity](#)

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## Mapping the inputs for the Delete Records activity

To map the inputs for the delete records activity, complete the following steps.

### Procedure

- In the Checklist, click the Map Inputs task.
- Click Select Inputs... and select the input variables for the map.

For instructions on how to create variables, see [Creating Variables](#).

- Map the elements in the From Orchestration panel to the NetSuite elements in the To Activity panel.

The elements in the To Activity pane are determined by the NetSuite record type you selected in the Configure task. For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Delete Records activity](#)

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## Mapping the outputs for the Delete Records activity

To map the outputs for the delete records activity, complete the following steps.

## Procedure

---

1. In the Checklist, click the Map Outputs task.
2. Click Copy.
3. Select deleteListResponse. Click Create to copy deleteListResponse from the Activity panel to the Orchestration panel.

**Parent topic:** [Delete Records activity](#)

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## Detach Records activity

---

The detach records activity can be used to remove a relationship between two records. For example, a Contact record associated with a Vendor record can be removed. The Detach Records activity can also detach files, such as Word or PDF files, from a NetSuite record.

### About this task

---

The following list describes the nodes for the Detach Records activity in the Checklist > Map Inputs > To Activity panel:

- {RecordRef} attachTo - this node specifies the record to which the attachment is removed.
  - @type “ In the Define Default Value, select the type of record.
  - @externalId “ Either externalId or internalId must be specified for the RecordRef.
  - @internalID “ Either externalId or internalId must be specified for the RecordRef.
- contact “ This node specifies the record or the file to detach from the detachTo record.
  - @internalID “ Either externalId or internalId must be specified for the RecordRef.
  - @externalId “ Either externalId or internalId must be specified for the RecordRef.
  - @type “ In the Define Default Value, select the type of record.
  - name “ Enter the name of the contact or the file name.
- contactRole “ This node specifies the role in the user defined Contact List located in the NetSuite UI at List > Relationships > Contacts.
  - exists “ a Boolean used to indicate whether the Contacts List exists or not.
  - @internalID “ Either externalId or internalId must be specified for the role.
  - @externalId “ Either externalId or internalId must be specified for the role.
  - name “ The title of the role such as Primary Contact.
- [Using the Detach Records activity](#)  
To use the detach Records activity, complete the following steps:
- [Mapping the inputs for the Detach Records activity](#)  
To map the inputs for the detach records activity, complete the following steps.
- [Mapping the outputs for the Detach Records activity](#)  
To map the outputs for the detach records activity, complete the following steps.

**Parent topic:** [NetSuite Activities](#)

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# Using the Detach Records activity

---

To use the detach Records activity, complete the following steps:

## Procedure

---

1. In the Activities tab, expand the NetSuite directory and locate the Detach Records activity.
2. Add the Detach Records activity to your orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. In the Checklist, click Pick Endpoint.
4. Select one of the following options:
  - o Browse - to select a NetSuite endpoint from the Project Explorer.
  - o New - to create a new NetSuite endpoint using the Create Endpoint dialog.  
For instructions on creating a NetSuite endpoint, see [Creating or editing a NetSuite endpoint](#).
  - o Edit - to edit an existing NetSuite endpoint using the Edit Endpoint dialog.  
For instructions on editing a NetSuite endpoint, see [Creating or editing a NetSuite endpoint](#).  
Note: Edits are global, not local. Editing an endpoint affects all orchestrations that use that endpoint in the project.
5. In the Checklist, click Configure.
6. Click Configure to display the Detach Reference Activity Wizard.
7. Click Browse.
8. Select the record you want to attach and click Select.
9. Click Next.
10. Select the record to which you want to attach the attachment record and click Select.
11. Click Finish.
12. In the Checklist, click Retry.
13. In the Retry section:
  - o Set the number of seconds, between each retry to connect with NetSuite. The default is 30 seconds.
  - o Set the number of times you want to retry before failing. The default is 5 times.In the Activity Timeout section:
  - o Set the Activity Timeout, in seconds, you want to wait when the endpoint does not respond to a request. The default is 300 seconds.
14. MapInputs. See [Mapping the inputs for the Detach Records activity](#) for more information.
15. Map outputs. See [Mapping the outputs for the Detach Records activity](#) for more information.

**Parent topic:** [Detach Records activity](#)

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# Mapping the inputs for the Detach Records activity

---

To map the inputs for the detach records activity, complete the following steps.

## Procedure

---

1. In the Checklist, click the Map Inputs task.
2. Click Select Inputs... and select the input variables for the map.

For instructions on creating variables, see [Creating Variables](#).

3. Map the elements in the From Orchestration pane to the NetSuite elements in the To Activity pane.

The elements in the To Activity pane are determined by the NetSuite record type you selected in the Configure task. For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Detach Records activity](#)

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## Mapping the outputs for the Detach Records activity

---

To map the outputs for the detach records activity, complete the following steps.

### Procedure

---

1. In the Checklist, click the Map Outputs task.
2. Click Copy.
3. Select detachListResponse and click Create to copy the detachListResponse from the Activity panel to the Orchestration panel.

**Parent topic:** [Detach Records activity](#)

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## Get Records activity

---

The Get Records activity retrieves one or more records based on the records unique IDs. If any of the IDs are invalid, valid IDs are processed and a warning for invalid IDs is sent in the response.

- [Using the Get Records activity](#)  
To use the Get Records activity complete the following steps.
- [Mapping the inputs for the Get Records activity](#)  
To map the inputs for the get records activity, complete the following steps.
- [Mapping the outputs for the Get Records activity](#)  
To map the outputs for the get records activity, complete the following steps.

**Parent topic:** [NetSuite Activities](#)

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## Using the Get Records activity

---

To use the Get Records activity complete the following steps.

## Procedure

---

1. In the Activities tab, expand the NetSuite directory and locate the Get Records activity.
2. Add the Get Records activity to your orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. In the Checklist, click Pick Endpoint.
  4. Select one of the following options:
    - o Browse - to select a NetSuite endpoint from the Project Explorer.
    - o New - to create a new NetSuite endpoint using the Create Endpoint dialog.  
  
For instructions on creating a NetSuite endpoint, see [Creating or editing a NetSuite endpoint](#).
- For instructions on editing a NetSuite endpoint, see [Creating or editing a NetSuite endpoint](#).  
Note: Edits are global, not local. Editing an endpoint affects all orchestrations that use that endpoint in the project.
5. In the Checklist, click Configure.
  6. Click Browse to display the Browse NetSuite dialog.
  7. In the Browse NetSuite dialog, click Show Record Types and select one of the following:
    - o All – to view all record types.
    - o Only Custom – to view only custom records.
    - o Only Standard – to view only standard NetSuite record types.
- Note: To use custom records, you must enter the internal ID in the recType/internalId node.
8. To view custom fields in standard records, select the Generate custom fields for standard record types checkbox.

This option does not apply to custom record types. The state of the checkbox is saved.

9. In the Browse NetSuite dialog, choose a record type by performing one of the following tasks:
    - o Enter the first few letters of a record type in the Search for a Record Type field, select the record type in the Record Type scroll list and then click Select.
    - o Scroll through the Record Type scroll list until you find the record type you want, click the record type, and then click Select.
  10. To refresh the maps in NetSuite, after the record type is set in the Configure panel, click Refresh.
  11. In the Checklist, click Retry.
  12. In the Retry section:
    - o Set the number of seconds, between each retry to connect with NetSuite. The default is 30 seconds.
    - o Set the number of times you want to retry before failing. The default is 5 times.
- In the Activity Timeout section:
- o Set the Activity Timeout, in seconds, you want to wait when the endpoint does not respond to a request. The default is 300 seconds.
13. Map inputs. See [Mapping the inputs for the Get Records activity](#) for more information.
  14. Map outputs. See [Mapping the outputs for the Get Records activity](#) for more information.

**Parent topic:** [Get Records activity](#)

---

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## Mapping the inputs for the Get Records activity

---

To map the inputs for the get records activity, complete the following steps.

## Procedure

---

1. In the Checklist, click the Map Inputs task.
2. Click Select Inputs... and select the input variables for the map.

For instructions on creating variables, see [Creating Variables](#).

3. Map the elements in the From Orchestration panel to the NetSuite elements in the To Activity panel.

The elements in the To Activity panel are determined by the NetSuite record type you selected in the Configure task. For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Get Records activity](#)

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## Mapping the outputs for the Get Records activity

---

To map the outputs for the get records activity, complete the following steps.

### Procedure

---

1. In the Checklist, click the Map Outputs task.
2. Click Copy.
3. Select getListResponse and click Create to copy your choices from the Activity panel to the Orchestration panel.

**Parent topic:** [Get Records activity](#)

---

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## Initialize Record activity

---

Use the Initialize Record activity to populate a transaction record with input from another related record. For example, you can populate a Sales Order record with input from the related Estimate record before submitting the Sales Order record to NetSuite.

### About this task

---

The following table lists the transaction records with the related record types that can be used to populate the transaction records.

Transaction Record Type	Related Initialization Record
Customer Refund	Cash Sale
Customer Refund	Return Authorization
Cash Sale	Customer
Cash Sale	Estimate
Cash Sale	Opportunity
Cash Sale	Sales Order

<b>Transaction Record Type</b>	<b>Related Initialization Record</b>
Credit Memo	Customer
Credit Memo	Invoice
Credit Memo	Return Authorization
Customer Payment	Customer
Customer Payment	Invoice
Estimate	Opportunity
Invoice	Customer
Invoice	Estimate
Invoice	Opportunity
Invoice	Sales Order
Item Fulfillment	Sales Order
Item Receipt	Return Authorization
Item Receipt	Purchase Order
Return Authorization	Cash Sale
Return Authorization	Invoice
Return Authorization	Sales Order
Sales Order	Estimate
Sales Order	Opportunity
Vendor Bill	Purchase Order

- [Using the Initialize Record activity](#)

To use the initialize records activity complete the following steps.

- [Mapping the inputs for the Initialize Records activity](#)

To map the inputs for the initialize records activity, complete the following steps.

- [Mapping the outputs for the Initialize Records activity](#)

To map the outputs for the initialize records activity, complete the following steps.

**Parent topic:** [NetSuite Activities](#)

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## Using the Initialize Record activity

To use the initialize records activity complete the following steps.

### Procedure

1. In the Activities tab, expand the NetSuite directory and locate the Initialize Records activity.
2. Add the Initialize Records activity to your orchestration.

The Checklist and Summary for the activity display beneath the orchestration.

3. In the Checklist, click Pick Endpoint.
4. Select one of the following options:

- Browse - to select a NetSuite endpoint from the Project Explorer.
- New - to create a new NetSuite endpoint using the Create Endpoint dialog.

For instructions on creating a NetSuite endpoint, see [Creating or editing a NetSuite endpoint](#).

- Edit - to edit an existing NetSuite endpoint using the Edit Endpoint dialog.

For instructions on editing a NetSuite endpoint, see [Creating or editing a NetSuite endpoint](#).

Note: Edits are global, not local. Editing an endpoint affects all orchestrations that use that endpoint in the project.

5. In the Checklist, click Configure.

6. Click Browse to display the Browse NetSuite dialog.

7. In the Browse NetSuite dialog, click Show Record Types and select one of the following options:

- All – to view all record types.
- Only Custom – to view only custom records.
- Only Standard – to view only standard NetSuite record types.

Note: To use custom records, you must enter the internal ID in the recType/internalId node.

8. To view custom fields in standard records, select the Generate custom fields for standard record types checkbox.

This option does not apply to custom record types. The state of the checkbox is saved.

9. In the Browse NetSuite dialog, choose a record type by performing one of the following tasks:

- Enter the first few letters of a record type in the Search for a Record Type field, select the record type in the Record Type scroll list and then click Select.
- Scroll through the Record Type scroll list until you find the record type you want, click the record type, and then click Select.

10. To refresh the maps in NetSuite, after the record type is set in the Configure panel, click Refresh.

11. In the Checklist, click Retry.

12. In the Retry section:

- Set the number of seconds, between each retry to connect with NetSuite. The default is 30 seconds.
- Set the number of times you want to retry before failing. The default is 5 times.

In the Activity Timeout section:

- Set the Activity Timeout, in seconds, you want to wait when the endpoint does not respond to a request. The default is 300 seconds.

13. Map inputs. See [Mapping the inputs for the Initialize Records activity](#) for more information.

14. Map outputs. See [Mapping the outputs for the Initialize Records activity](#) for more information.

**Parent topic:** [Initialize Record activity](#)

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## Mapping the inputs for the Initialize Records activity

To map the inputs for the initialize records activity, complete the following steps.

### Procedure

1. In the Checklist, click the Map Inputs task.
2. Click Select Inputs... and select the input variables for the map.

For instructions on creating variables, see [Creating Variables](#).

3. Map the elements in the From Orchestration panel to the NetSuite elements in the To Activity panel.

The elements in the To Activity pane are determined by the NetSuite record type you selected in the Configure task. For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Initialize Record activity](#)

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## Mapping the outputs for the Initialize Records activity

---

To map the outputs for the initialize records activity, complete the following steps.

### Procedure

---

1. In the Checklist, click the Map Outputs task.
2. Click Copy.
3. Select initializeListResponse and click Create to copy your choices from the Activity panel to the Orchestration panel.

**Parent topic:** [Initialize Record activity](#)

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## Search Records activity

---

The Search Records activity searches for a specific record type based on search criteria that you specify.

### About this task

---

You specify search criteria by expanding an element node and then specifying the operator and search value. For example, for a record type having an account number node:

1. Expand the accountNumber node.
2. Click operator and then right-click operator.
3. Select Define Default Value.
4. In the Default Value field, click the arrow and select an operator from the list.
5. Click OK.
6. Click searchValue.
7. Select Define Default Value.
8. In the Default Value field, enter the account number.
9. Click OK.

The Search Records activity supports searching on fields with a null value using the operator noneOf. This search returns all records for which the field does not have a null value.

To retrieve values from lists, use the Get Records activity as the Search Records activity does not support lists.

You define the search criteria during the Map Inputs task in the To Activity panel.

- [Using the Search Records activity](#)  
To use the search records activity complete the following steps.
- [Mapping the inputs for the Search Records activity](#)  
To map the inputs for the search records activity, complete the following steps.

- [Mapping the outputs for the Search Records activity](#)

To map the outputs for the search records activity, complete the following steps.

**Parent topic:** [NetSuite Activities](#)

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## Using the Search Records activity

---

To use the search records activity complete the following steps.

### Procedure

---

1. In the Activities tab, expand the NetSuite directory and locate the Initialize Records activity.
2. Add the Initialize Records activity to your orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. In the Checklist, click Pick Endpoint.
4. Select one of the following options:

- Browse - to select a NetSuite endpoint from the Project Explorer.
- New - to create a new NetSuite endpoint using the Create Endpoint dialog.

For instructions on creating a NetSuite endpoint, see [Creating or editing a NetSuite endpoint](#).

- Edit - to edit an existing NetSuite endpoint using the Edit Endpoint dialog.

For instructions on editing a NetSuite endpoint, see [Creating or editing a NetSuite endpoint](#).

Note: Edits are global, not local. Editing an endpoint affects all orchestrations that use that endpoint in the project.

5. In the Checklist, click Configure.
6. Click Browse to display the Browse NetSuite dialog.
7. In the Browse NetSuite dialog, click Show Record Types and select one of the following options:
  - All – to view all record types.
  - Only Custom – to view only custom records.
  - Only Standard – to view only standard NetSuite record types.

Note: To use custom records, you must enter the internal ID in the recType/internalId node.

8. To view custom fields in standard records, select the Generate custom fields for standard record types checkbox.

This option does not apply to custom record types. The state of the checkbox is saved.

9. In the Browse NetSuite dialog, choose a record type by performing one of the following tasks:
  - Enter the first few letters of a record type in the Search for a Record Type field, select the record type in the Record Type scroll list and then click Select.
  - Scroll through the Record Type scroll list until you find the record type you want, click the record type, and then click Select.
10. To refresh the maps in NetSuite, after the record type is set in the Configure panel, click Refresh.
11. In the Checklist, click Retry.
12. In the Retry section:
  - Set the number of seconds, between each retry to connect with NetSuite. The default is 30 seconds.
  - Set the number of times you want to retry before failing. The default is 5 times.
- In the Activity Timeout section:
  - Set the Activity Timeout, in seconds, you want to wait when the endpoint does not respond to a request. The default is 300 seconds.
13. Map inputs. See [Mapping the inputs for the Search Records activity](#) for more information.
14. Map outputs. See [Mapping the outputs for the Search Records activity](#) for more information.

**Parent topic:** [Search Records activity](#)

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## Mapping the inputs for the Search Records activity

---

To map the inputs for the search records activity, complete the following steps.

### Procedure

---

1. In the Checklist, click the Map Inputs task.
2. Click Select Inputs... and select the input variables for the map.

For instructions on creating variables, see [Creating Variables](#).

3. Map the elements in the From Orchestration panel to the NetSuite elements in the To Activity panel.

The elements in the To Activity panel are determined by the NetSuite record type you selected in the Configure task. For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Search Records activity](#)

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## Mapping the outputs for the Search Records activity

---

To map the outputs for the search records activity, complete the following steps.

### Procedure

---

1. In the Checklist, click the Map Outputs task.
2. Click Copy to copy the searchResponse elements from the Activity panel to the Orchestration panel.

**Parent topic:** [Search Records activity](#)

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## Update Records activity

---

The Update Records activity can update one or more records. Only fields that are populated are updated in NetSuite. For fields that are not populated, the previous value in NetSuite is maintained. If a field is populated with an empty string, the value of the field in NetSuite is replaced with an empty string.

- [Using the Update Records activity](#)

To use the Update Records activity complete the following tasks.

- [Mapping the inputs for the Update Records activity](#)

To map the inputs for the update records activity, complete the following steps.

- [Mapping the outputs for the Update Records activity](#)

To map the outputs for the update records activity, complete the following steps.

**Parent topic:** [NetSuite Activities](#)

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## Using the Update Records activity

---

To use the Update Records activity complete the following tasks.

### Procedure

---

1. In the Activities tab, expand the NetSuite directory and locate the Get Records activity.

2. Add the Get Records activity to your orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. In the Checklist, click Pick Endpoint.

4. Select one of the following options:

- Browse - to select a NetSuite endpoint from the Project Explorer.
- New - to create a new NetSuite endpoint using the Create Endpoint dialog.

For instructions on creating a NetSuite endpoint, see [Creating or editing a NetSuite endpoint](#).

- Edit - to edit an existing NetSuite endpoint using the Edit Endpoint dialog.

For instructions on editing a NetSuite endpoint, see [Creating or editing a NetSuite endpoint](#).

Note: Edits are global, not local. Editing an endpoint affects all orchestrations that use that endpoint in the project.

5. In the Checklist, click Configure.

6. Click Browse to display the Browse NetSuite dialog.

7. In the Browse NetSuite dialog, click Show Record Types and select one of the following options:

- All – to view all record types.
- Only Custom – to view only custom records.
- Only Standard – to view only standard NetSuite record types.

Note: To use custom records, you must enter the internal ID in the recType/internalId node.

8. To view custom fields in standard records, select the Generate custom fields for standard record types checkbox.

This option does not apply to custom record types. The state of the checkbox is saved.

9. In the Browse NetSuite dialog, choose a record type by performing one of the following tasks:

- Enter the first few letters of a record type in the Search for a Record Type field, select the record type in the Record Type scroll list and then click Select.
- Scroll through the Record Type scroll list until you find the record type you want, click the record type, and then click Select.

10. To refresh the maps in NetSuite, after the record type is set in the Configure panel, click Refresh.

11. In the Checklist, click Retry.

12. In the Retry section:

- Set the number of seconds, between each retry to connect with NetSuite. The default is 30 seconds.
- Set the number of times you want to retry before failing. The default is 5 times.

In the Activity Timeout section:

- o Set the Activity Timeout, in seconds, you want to wait when the endpoint does not respond to a request. The default is 300 seconds.

13. Map inputs. See [Mapping the inputs for the Update Records activity](#) for more information.

14. Map outputs. See [Mapping the outputs for the Update Records activity](#) for more information.

**Parent topic:** [Update Records activity](#)

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## Mapping the inputs for the Update Records activity

---

To map the inputs for the update records activity, complete the following steps.

### Procedure

---

1. In the Checklist, click the Map Inputs task.
2. Click Select Inputs... and select the input variables for the map.

For instructions on how to create variables, see [Creating Variables](#).

3. Map the elements in the From Orchestration panel to the NetSuite elements in the To Activity panel.

The elements in the To Activity panel are determined by the NetSuite record type you selected in the Configure task. For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Update Records activity](#)

---

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## Mapping the outputs for the Update Records activity

---

To map the outputs for the update records activity, complete the following steps.

### Procedure

---

1. In the Checklist, click the Map Outputs task.
2. Click Copy.
3. Select either or both updateListResponse or headers\_x and click Create to copy your choices from the Activity panel to the Orchestration panel.

**Parent topic:** [Update Records activity](#)

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## Upsert Records Activity

---

The Upsert Records activity can update a record if the record already exists in the database, or to insert the record if it does not. Only fields that are populated are updated in NetSuite. For fields that are not populated, the previous value in NetSuite is maintained. If a field is populated with an empty string, the value of the field in NetSuite is replaced with an empty string.

- [Using the Upsert Records activity](#)  
To use the Upsert Records activity complete the following tasks.
- [Mapping the inputs for the Upsert Records activity](#)  
To map the inputs for the update records activity, complete the following steps.
- [Mapping the outputs for the Upsert Records activity](#)  
To map the outputs for the update records activity, complete the following steps.

**Parent topic:** [NetSuite Activities](#)

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## Using the Upsert Records activity

---

To use the Upsert Records activity complete the following tasks.

### Procedure

---

1. In the Activities tab, expand the NetSuite directory and locate the Upsert Records activity.
2. Add the Upsert Records activity to your orchestration.

The Checklist and Summary for the activity are displayed below the orchestration.

3. In the Checklist, click Pick Endpoint.
4. Select one of the following options:
  - Browse - to select a NetSuite endpoint from the Project Explorer.
  - New - to create a new NetSuite endpoint using the Create Endpoint dialog.

For instructions on creating a NetSuite endpoint, see [Creating or editing a NetSuite endpoint](#).

- Edit - to edit an existing NetSuite endpoint using the Edit Endpoint dialog.

For instructions on editing a NetSuite endpoint, see [Creating or editing a NetSuite endpoint](#).

Note: Edits are global, not local. Editing an endpoint affects all orchestrations that use that endpoint in the project.

5. In the Checklist, click Configure.
  6. Click Browse to display the Browse NetSuite dialog.
  7. In the Browse NetSuite dialog, click Show Record Types and select one of the following options:
    - All – to view all record types.
    - Only Custom – to view only custom records.
    - Only Standard – to view only standard NetSuite record types.
- Note: To use custom records, you must enter the internal ID in the recType/internalId node.
8. To view custom fields in standard records, select the Generate custom fields for standard record types checkbox.
- This option does not apply to custom record types. The state of the checkbox is saved.
9. In the Browse NetSuite dialog, choose a record type by performing one of the following tasks:

- Enter the first few letters of a record type in the Search for a Record Type field, select the record type in the Record Type scroll list and then click Select.
  - Scroll through the Record Type scroll list until you find the record type you want, click the record type, and then click Select.
10. To refresh the maps in NetSuite, after the record type is set in the Configure panel, click Refresh.
11. In the Checklist, click Retry.
12. In the Retry section:
- Set the number of seconds, between each retry to connect with NetSuite. The default is 30 seconds.
  - Set the number of times you want to retry before failing. The default is 5 times.
- In the Activity Timeout section:
- Set the Activity Timeout, in seconds, you want to wait when the endpoint does not respond to a request. The default is 300 seconds.
13. Map inputs. See [Mapping the inputs for the Upsert Records activity](#) for more information.
14. Map outputs. See [Mapping the outputs for the Upsert Records activity](#) for more information.

**Parent topic:** [Upsert Records Activity](#)

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## Mapping the inputs for the Upsert Records activity

---

To map the inputs for the update records activity, complete the following steps.

### Procedure

---

1. In the Checklist, click the Map Inputs task.
  2. Click Select Inputs... and select the input variables for the map.
- For instructions on how to create variables, see [Creating Variables](#).

3. Map the elements in the From Orchestration panel to the NetSuite elements in the To Activity panel.

The elements in the To Activity panel are determined by the NetSuite record type you selected in the Configure task. For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Upsert Records Activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/netsuite\\_Upsert\\_Records\\_Map\\_Input.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/netsuite_Upsert_Records_Map_Input.html)

## Mapping the outputs for the Upsert Records activity

---

To map the outputs for the update records activity, complete the following steps.

### Procedure

---

1. In the Checklist, click the Map Outputs task.
2. Click Copy.

3. Select either or both upsertListResponse or headers\_x and click Create to copy your choices from the Activity panel to the Orchestration panel.

**Parent topic:** [Upssert Records Activity](#)

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[Feedback](#) | [Notices](#)

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## Troubleshooting and support

---

Troubleshooting techniques and self-help information help you identify and solve problems quickly. This topic provides potential solutions for issues you would have with the NetSuite connector.

### Points to note when upgrading to NetSuite 2013\_2 with WebSphere Cast Iron NetSuite Connector

---

In NetSuite 2013\_1 and earlier versions, every custom field in NetSuite was identified with an `internalId` (unique) attribute.

NetSuite has made the following changes in version 2013\_2 and later versions:

- `scriptId` is the new `internalId`
- a new `internalId` attribute has been introduced

These changes affect all orchestrations that use the Cast Iron NetSuite connector, with the internal ID for custom fields being populated. If you upgrade the connector endpoints to version 2013\_2 or a later version, these orchestration will stop working because the `internalId` attribute would still point to the old value.

#### Symptom

Orchestrations using the Cast Iron NetSuite connector stop working if you upgrade the connector endpoints to version 2013\_2 or later versions of NetSuite.

#### Solution:

1. Open each project using the NetSuite connector in IBM WebSphere Cast Iron Studio 7001.
2. Go to each NetSuite endpoint, click the 'Update Wsdl to 2014\_1' button and follow the steps to update the WSDL attached to the project.
3. For each activity in every orchestration using NetSuite connector, go to the Configure Tab of the activity and press the refresh button to update the NetSuite object with the latest schema.
4. Go to Map Input and Map Output section to ensure that the right value is populated for the internal ID field for the object and\or its child objects.
5. Thoroughly test the orchestrations in the project in development environment, before moving into production.
6. Repeat these steps for every project using NetSuite connector.

**Parent topic:** [NetSuite Activities](#)

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## Oracle CRM On Demand Activities

---

The following activities require the C0020-IBM: Connector for Oracle CRM On Demand.

- [Creating or editing an Oracle CRM On Demand endpoint](#)  
Oracle CRM On Demand endpoints contain the connection information that studio and the Integration Appliance use to connect to the Oracle CRM On Demand Server. You can create multiple endpoints that refer to separate instances.
- [Specifying the Retry options for Oracle CRM On Demand activities](#)  
Specifying the Retry parameters is one of the tasks to configure an Oracle CRM On Demand activity.
- [Using the Oracle CRM On Demand Insert Object activity](#)  
Use the Oracle CRM On Demand Insert Object activity to insert or create objects in the Oracle CRM On Demand instance.
- [Using the Oracle CRM On Demand Update Object activity](#)  
Use the Oracle CRM On Demand Update Object activity to update objects in the Oracle CRM On Demand instance, with new values.
- [Using the Oracle CRM On Demand Query Object activity](#)  
Use the Oracle CRM On Demand Query Object activity to query objects in the Oracle CRM instance.
- [Using the Oracle CRM On Demand Delete Object activity](#)  
Use the Oracle CRM On Demand Delete Object activity to delete objects from the Oracle CRM On Demand instance.

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#### [Feedback | Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_oracleCRMactivities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_oracleCRMactivities.html)

## [Creating or editing an Oracle CRM On Demand endpoint](#)

---

Oracle CRM On Demand endpoints contain the connection information that studio and the Integration Appliance use to connect to the Oracle CRM On Demand Server. You can create multiple endpoints that refer to separate instances.

### [About this task](#)

---

Use this task to create or edit an Oracle CRM On Demand endpoint.

Note:

Any changes you make to the Oracle CRM On Demand endpoint, including configuration properties, affects all the orchestrations that use that endpoint, as the edits are global, not local.

### [Procedure](#)

---

1. Drag an activity from the Oracle CRM On Demand folder under the Activities tab to the Orchestration window. The Summary panel is displayed.
2. Click Pick Endpoint from the Checklist. The Pick Endpoint panel is displayed.
3. Click one of the following buttons:
  - a. Browse - To select an existing endpoint from Project Explorer. The Project Explorer shows all the endpoints in the project available for the activity. When you select an endpoint, the endpoint properties are displayed in the Pick Endpoint panel.
  - b. New - To create a new endpoint. The Create Endpoint window opens.
  - c. Edit - To edit the existing endpoint. The Edit Endpoint window opens.
4. Complete the fields defined in the following table:

Table 1. Connection Details

Field Name	Description
Connection Details	
OracleCRM HostName	Specifies the host name of the Oracle CRM On Demand instance.
User Name	Specifies the user name to connect to the OracleCRM On Demand server.
Password	Specifies the password associated with the user name to connect to the OracleCRM On Demand server.

5. When finished, click Test Connection to confirm that you can connect to the Oracle CRM On Demand system.

6. Click OK.

**Parent topic:** Oracle CRM On Demand Activities

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## Specifying the Retry options for Oracle CRM On Demand activities

---

Specifying the Retry parameters is one of the tasks to configure an Oracle CRM On Demand activity.

### About this task

---

Use this task to configure the retry options for the Oracle CRM On Demand activities. The Oracle CRM On Demand connector uses a single login session for all connections to an Oracle CRM On Demand endpoint. If a session expires, the connector automatically establishes a new session. The connector does not count the initial attempt to reacquiring the session as a retry attempt. The connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails.

### Procedure

---

1. Select the Retry task from the Checklist. The retry pane is displayed.
2. Configure the retry and timeout options for connecting to an Oracle CRM On Demand instance, as described in the following table:

Table 1. Retry options

Retry Fields	Description
Wait __ seconds between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the Oracle CRM On Demand instance.
Try to connect __ times before failing.	Specifies the retry count – the maximum number of times the Integration Appliance attempts to establish a connection to the Oracle CRM On Demand instance before issuing an error and stopping the processing of the current orchestration job. Note: If you deploy an orchestration that contains the Oracle CRM On Demand activity and the Integration Appliance cannot connect to the specified Oracle CRM On Demand instance, the Integration Appliance logs the connections errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3, the first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.
Activity Timeout	
Timeout after ____ seconds when the endpoint does not respond to a request.	Specifies the number of seconds the Integration Appliance waits before timing out, when the endpoint does not respond to a request. The default is 300 seconds.

**Parent topic:** Oracle CRM On Demand Activities

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Oracle\\_Specifying\\_Retry\\_Parameters\\_for\\_Oracle\\_Activities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Oracle_Specifying_Retry_Parameters_for_Oracle_Activities.html)

## Using the Oracle CRM On Demand Insert Object activity

---

Use the Oracle CRM On Demand Insert Object activity to insert or create objects in the Oracle CRM On Demand instance.

### About this task

---

Use this task to insert or create objects in the Oracle CRM On Demand instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Oracle CRM On Demand folder contents.
2. Drag the Insert Object activity icon onto the orchestration. The Oracle CRM On Demand Insert Object Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Oracle CRM On Demand endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an Oracle CRM On Demand endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse OracleCRMOD window is displayed.
11. In Browse OracleCRMOD, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for Oracle CRM On Demand activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Insert Object activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the Oracle CRM On Demand Insert Object activity.

**Parent topic:** [Oracle CRM On Demand Activities](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/OracleCRMOD\\_insert\\_outactivity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/OracleCRMOD_insert_outactivity.html)

## Using the Oracle CRM On Demand Update Object activity

---

Use the Oracle CRM On Demand Update Object activity to update objects in the Oracle CRM On Demand instance, with new values.

### About this task

---

Use this task to update objects in the Oracle CRM On Demand instance, with new values. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Oracle CRM On Demand folder contents.
2. Drag the Update Object activity icon onto the orchestration. The Oracle CRM On Demand Update Object Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Oracle CRM On Demand endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
*Note:* For more information, see [Creating or editing an Oracle CRM On Demand endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse OracleCRMOD window is displayed.
11. In Browse OracleCRMOD, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for Oracle CRM On Demand activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Update Object activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
*Note:* Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the Oracle CRM On Demand Update Object activity.

**Parent topic:** [Oracle CRM On Demand Activities](#)

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[Feedback](#) | [Notices](#)

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# Using the Oracle CRM On Demand Query Object activity

---

Use the Oracle CRM On Demand Query Object activity to query objects in the Oracle CRM instance.

## About this task

---

Use this task to query objects in the Oracle CRM On Demand instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Oracle CRM On Demand folder contents.
2. Drag the Query Object activity icon onto the orchestration. The Oracle CRM On Demand Query Object Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Oracle CRM On Demand endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an Oracle CRM On Demand endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse OracleCRMOD window is displayed.
11. In Browse OracleCRMOD, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for Oracle CRM On Demand activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Query Object activity are displayed as nodes under the request input parameter in the To Activity panel.

Perform the following steps to type the query strings in the SearchSpec of the To Activity pane:

- a. Right-click a SearchSpec and select the Define Default Value option.
  - b. Specify the Default Value in the Define Default Value window. For example, to query for contact objects whose given name begins with Jo, then type the query string as "[ContactFirstName] = â€"Joâ€™â€". To query for contact objects whose given name is John, type "[ContactFirstName] = â€Johnâ€™â€". To query for contact objects whose name is Jane Doe, type the query string as "([ContactFirstName] = â€Janeâ€™â€) AND ([ContactLastName] = â€Doeâ€™â€)".
  - c. Click OK.  
Note: To get the value of the object name field, you must specify a blank value in the Name field of the Map Inputs section.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
  16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
  17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Oracle CRM On Demand Query Object activity.

**Parent topic:** [Oracle CRM On Demand Activities](#)

---

[Feedback | Notices](#)

## Using the Oracle CRM On Demand Delete Object activity

---

Use the Oracle CRM On Demand Delete Object activity to delete objects from the Oracle CRM On Demand instance.

### About this task

---

Use this task to delete objects from the Oracle CRM On Demand instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Oracle CRM On Demand folder contents.
2. Drag the Delete Object activity icon onto the orchestration. The Oracle CRM On Demand Delete Object Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Oracle CRM On Demand endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an Oracle CRM On Demand endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse OracleCRMOD window is displayed.
11. In Browse OracleCRMOD, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for Oracle CRM On Demand activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Delete Object activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the Oracle CRM On Demand Delete Object activity.

**Parent topic:** [Oracle CRM On Demand Activities](#)

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## Oracle E-Business Suite Activities

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- [Overview of the Oracle E-Business Suite connector](#)
- [Installing JAR files to connect to Oracle E-Business Suite](#)  
You must copy the Oracle JDBC driver JAR file on the same workstation as your Cast Iron Studio installation before you can connect to the Oracle E-Business Suite application.
- [Creating or editing an endpoint for an Oracle E-Business Suite activity](#)  
Endpoints provide the configuration information that Studio and the Integration Appliance use to connect to an Oracle database. Â
- [Using the Oracle E-Business Suite Create Objects activity](#)  
Use the Create Objects activity to create rows in database tables corresponding to the business object in the request. You can create rows to flat tables/views that have a primary key defined.
- [Using the Oracle E-Business Suite Update Objects activity](#)  
Use the Update Objects activity to update rows in the database tables corresponding to the business object in the request. You can update rows of flat tables that have a primary key defined.
- [Using the Oracle E-Business Suite Delete Objects activity](#)  
Use the Delete Objects activity to delete rows from the Oracle table. You can delete rows from flat tables/views that have a primary key defined.
- [Using the Oracle E-Business Suite Retrieve Objects activity](#)  
Use the Retrieve Objects activity to retrieve rows from the Oracle table. You can retrieve rows from flat tables/views that have a primary key defined.
- [Specifying Retry and Delivery options for Oracle E-Business Suite activities](#)  
Specifying the Retry and Delivery parameters is one of the tasks to configure a Oracle E-Business Suite activity configuration.
- [Prerequisites for starter activities in Oracle E-Business Suite](#)
- [Using the Oracle E-Business Suite Get Created Objects activity](#)  
Use the Get Created Objects activity to get the values of rows that have been newly created in the database tables/views corresponding to the business object in the request.
- [Using the Oracle E-Business Suite Get Updated Objects activity](#)  
Use the Get Updated Objects activity to get the rows that have been updated in the database tables corresponding to the business object in the request.
- [Using the Oracle E-Business Suite Get Deleted Objects activity](#)  
Use the Get Deleted Objects activity to get the deleted records from the Oracle table.

#### [Feedback | Notices](#)

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## Overview of the Oracle E-Business Suite connector

With the Oracle E-Business Suite connector, you can interact and exchange information with Oracle E-Business Suite. By using the connector, you can send requests to the underlying Oracle database, without special coding.

You can perform the following activities by using the Oracle E-Business Suite connector:

- Outbound Activities
  - [Create Objects](#)
  - [Update Objects](#)
  - [Delete Objects](#)
  - [Retrieve Objects](#)
- Inbound Activities
  - [Get Created Objects](#)
  - [Get Updated Objects](#)
  - [Get Deleted Objects](#)

The versions of Oracle E-Business Suite application that is supported by the connector are 11.5,12.0, and 12.1.

**Parent topic:** [Oracle E-Business Suite Activities](#)

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## Installing JAR files to connect to Oracle E-Business Suite

---

You must copy the Oracle JDBC driver JAR file on the same workstation as your Cast Iron Studio installation before you can connect to the Oracle E-Business Suite application.

### Before you begin

---

- The JAR files can be obtained from the Oracle system administrator.
- The JAR files must be on the same computer as the studio installation.
- The JAR files must be from the same version as the Oracle E-Business Suite application you connect to.

Note: The Oracle E-Business Suite connector uses the Oracle thin driver to connect and work with the database.

### About this task

---

#### Procedure

---

1. Open studio and select Tools > Install Module Providers.
2. When the Add Provider(s) dialog box is displayed, click the plus (+) button under Oracle E-Business Suite. A field and a Browse button appears.
3. Click Browse, and use the browse dialog box to locate and select the JAR file.
4. Click Open to import the selected file.
5. When the JAR file is listed in the Add Provider(s) dialog box, click OK.

#### Results

---

A prompt is displayed to restart studio and activate the changes.

### What to do next

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You can now create Oracle E-Business Suite endpoints and orchestrations.

**Parent topic:** [Oracle E-Business Suite Activities](#)

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## Creating or editing an endpoint for an Oracle E-Business Suite activity

---

Endpoints provide the configuration information that Studio and the Integration Appliance use to connect to an Oracle database. Â

### Selecting or editing an Oracle E-Business Suite endpoint

---

1. In the Create Endpoint or Edit Endpoint pane, configure the Oracle database as described in the following table. In addition to these fields, the endpoint pane contains Connection pool options and Remote Endpoint Configuration.

Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.

2. Click Test Connection to confirm that the connection details are valid and you are able to connect to the Oracle database successfully.
3. Click OK.

Table 1. Connection properties

Field Name	Description
<b>Oracle E-Business Suite connector - Connection Information</b>	
Interface	Specifies the interface used to communicate with Oracle E-Business Suite. Currently, only database is supported, which uses JDBC API to communicate with Oracle E-Business Suite.
Host Name	Specifies the host name or IP address of the machine on which the Oracle database is running.
Port Number	Specifies the Oracle Internet port that allows Javaâ„¢ applets or applications to access the database.
System ID	Specifies the system ID (SID) to connect to the Oracle database.
User Name	Specifies the user name to connect to the Oracle database.
Password	Specifies the password associated with the user name to connect to the Oracle database.
Additional Properties	Specifies the additional properties to be set when connecting to the database using the JDBC driver.
<b>Connection Pool options</b>	
Minimum Connections	Specifies the lowest number of Oracle database connections that the Integration Appliance keeps open in the connection pool. Entering 0 (zero) is supported. The default value is 5.
Maximum Connections	Specifies the maximum number of Oracle database connections that the Integration Appliance can keep open in the connection pool. Entering 0 (zero) means the maximum number of connections is unbounded. The default value is 25.
Maximum Idle Time	Specifies the amount of time in minutes that a Oracle database connection can be open in an idle state before being closed by the Integration Appliance. Entering 0 (zero) means that the connections are closed when they are returned to the pool â€”no idle time. The default value is 120 minutes.
Maximum Wait	Specifies the amount of time in seconds that the Integration Appliance waits for a connection when all the connections in the pool are exhausted. If no connection is obtained after the wait time, an exception is thrown. The default value is 300 seconds.
Reclaim Connections	Specifies the interval at which the connector checks for idle connections. Idle connections are reclaimed until the minimum number of connections is reached, as specified in the Minimum Connections parameter. The default value is 5 minutes.
Note: The Connection pool properties need to be configured as per the load (number of concurrent requests) on the endpoint.	
<b>Remote Endpoint Configuration</b>	
Endpoint Runs Behind Firewall	Enables the secure connector name property so that secure connector can be used if the Oracle database is installed behind a firewall.
Secure Connector Name	Specifies the name of the secure connector that is used to connect to the Oracle database is installed behind a firewall.

**Parent topic:** [Oracle E-Business Suite Activities](#)

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## Using the Oracle E-Business Suite Create Objects activity

---

Use the Create Objects activity to create rows in database tables corresponding to the business object in the request. You can create rows to flat tables/views that have a primary key defined.

## About this task

---

Use this task to create objects in the Oracle E-Business Suite application. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Oracle E-Business Suite folder contents.
2. Drag the **Create Objects** activity from the Oracle E-Business Suite folder onto the orchestration. The graphical representation of the orchestration, including the checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Oracle E-Business Suite endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an endpoint for an Oracle E-Business Suite activity](#).
8. To make the required changes to the selected endpoint configuration, click Edit to access the options in a separate window.  
Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Browse for the Oracle table/view name in the Oracle Table/View field.
11. In Browse Oracle Database Tables/Views dialog:
  - o Select a user schema from the Filter by user schema drop-down list.
  - o Select either Tables or Views from Database object type.
  - o Use Filter tables/views by name to filter the tables/views during selection.
  - o Select a table/view.
12. Click OK.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying Retry and Delivery options for Oracle E-Business Suite activities](#).
14. Select Map Inputs in the Checklist. The XML schemas generated from the selected object of the Create Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console (WMC). If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Oracle E-Business Suite Create Objects activity.

**Parent topic:** [Oracle E-Business Suite Activities](#)

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## Using the Oracle E-Business Suite Update Objects activity

---

Use the Update Objects activity to update rows in the database tables corresponding to the business object in the request. You can update rows of flat tables that have a primary key defined.

## About this task

---

Use this task to update objects in the Oracle E-Business Suite application. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Oracle E-Business Suite folder contents.
2. Drag the **Update Objects** activity from the Oracle E-Business Suite folder onto the orchestration. The graphical representation of the orchestration, including the checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Oracle E-Business Suite endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an endpoint for an Oracle E-Business Suite activity](#).
8. To make the required changes to the selected endpoint configuration, click Edit to access the options in a separate window.  
Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Browse for the Oracle table/view name in the Oracle Table/View field.
11. In Browse Oracle Database Tables/Views dialog:
  - Select a user schema from the Filter by user schema drop-down list.
  - Select either Tables or Views from Database object type.
  - Use Filter tables/views by name to filter the tables/views during selection.
  - Select a table/view.
12. Select a table and click OK.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying Retry and Delivery options for Oracle E-Business Suite activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Update Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console (WMC). If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Oracle E-Business Suite Update Objects activity.

**Parent topic:** [Oracle E-Business Suite Activities](#)

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## Using the Oracle E-Business Suite Delete Objects activity

---

Use the Delete Objects activity to delete rows from the Oracle table. You can delete rows from flat tables/views that have a primary key defined.

## About this task

---

Use this task to delete rows from the Oracle E-Business Suite application. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Oracle E-Business Suite folder contents.
2. Drag the **Delete Objects** activity from the Oracle E-Business Suite folder onto the orchestration. The graphical representation of the orchestration, including the checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Oracle E-Business Suite endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an endpoint for an Oracle E-Business Suite activity](#).
8. To make the required changes to the selected endpoint configuration, click Edit to access the options in a separate window.  
Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Browse for the Oracle table/view name in the Oracle Table/View field.
11. In Browse Oracle Database Tables/Views dialog:
  - o Select a user schema from the Filter by user schema drop-down list.
  - o Select either Tables or Views from Database object type.
  - o Use Filter tables/views by name to filter the tables/views during selection.
  - o Select a table/view.
12. Click OK.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying Retry and Delivery options for Oracle E-Business Suite activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Delete Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console (WMC). If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Oracle E-Business Suite Delete Objects activity.

**Parent topic:** [Oracle E-Business Suite Activities](#)

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## Using the Oracle E-Business Suite Retrieve Objects activity

---

Use the Retrieve Objects activity to retrieve rows from the Oracle table. You can retrieve rows from flat tables/views that have a primary key defined.

## About this task

---

Use this task to retrieve objects in the Oracle E-Business Suite application. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Oracle E-Business Suite folder contents.
2. Drag the **Retrieve Objects** activity from the Oracle E-Business Suite folder onto the orchestration. The graphical representation of the orchestration, including the checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Oracle E-Business Suite endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an endpoint for an Oracle E-Business Suite activity](#).
8. To make the required changes to the selected endpoint configuration, click Edit to access the options in a separate window.  
Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Browse for the Oracle table/view name in the Oracle Table/View field.
11. In Browse Oracle Database Tables/Views dialog:
  - o Select a user schema from the Filter by user schema drop-down list.
  - o Select either Tables or Views from Database object type.
  - o Use Filter tables/views by name to filter the tables/views during selection.
  - o Select a table/view.
12. Click OK.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying Retry and Delivery options for Oracle E-Business Suite activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Retrieve Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console (WMC). If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Oracle E-Business Suite Retrieve Objects activity.

**Parent topic:** [Oracle E-Business Suite Activities](#)

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## [Specifying Retry and Delivery options for Oracle E-Business Suite activities](#)

---

Specifying the Retry and Delivery parameters is one of the tasks to configure a Oracle E-Business Suite activity configuration.

### About this task

---

This section contains the procedures for configuring the Oracle E-Business Suite activities.

## Procedure

---

To specify the retry options for Oracle E-Business Suite activities:

1. Select the Retry task from the Checklist. The retry pane is displayed.
2. Configure the retry options for connecting to a Oracle E-Business Suite server as described in the following table:

Table 1. Retry options

Retry Fields	Description
Wait $\text{---}$ seconds between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the Oracle E-Business Suite application.
Try to connect $\text{---}$ times before failing.	<p>Specifies the retry count — the maximum number of times the Integration Appliance attempts to establish a connection to the Oracle E-Business Suite application before issuing the following errors:</p> <ul style="list-style-type: none"> <li>o When you set this parameter to 0, Studio does not try to reconnect.</li> <li>o When you set this parameter to a value less than 0, Studio retries the connection indefinitely.</li> </ul> <p>If an orchestration that starts with an outbound Oracle E-Business Suite activity is deployed and the Integration Appliance cannot connect to the specified Oracle E-Business Suite application, the Integration Appliance logs the connection errors as warnings in the system log until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system log, resets the connection error count to zero, and continues to attempt to establish a connection to the Oracle E-Business Suite application.</p> <p>For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.</p>

**Parent topic:** [Oracle E-Business Suite Activities](#)

## Specifying the delivery rules options for Oracle E-Business Suite inbound activities

---

### About this task

This section contains the procedure for configuring the delivery rule options for Oracle E-Business Suite inbound activities.

### Procedure

1. Select the Delivery Rules task from the Checklist. The delivery rules pane is displayed.
2. Configure the delivery rules options to select the activity's behavior as described in the following table.

Table 2. Delivery rules

Delivery Rules Fields	Description
Poll for changes every $\text{-----}$ days/hours/minutes/seconds	Specifies the time interval to poll for objects in the Oracle database. (For example, the Get created object activity polls for create objects at the specified time internal.) Time can be selected in the format days, hours, minutes, or seconds.
Fetch $\text{-----}$ rows per poll	Specifies how many objects or components the activity should retrieve from the Oracle database in each poll cycle.
<b>Delivery Messages</b>	Â
ATMOST_ONCE	A non-persistent mode in which a row from the Oracle table is either delivered once or not delivered at all.
ATLEAST_ONCE	A persistent mode, in which a row from the Oracle table is not lost. As a result, there are chances that the orchestration can receive events once or more than once.

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/OracleEBS\\_specifying\\_retry\\_parameters.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/OracleEBS_specifying_retry_parameters.html)

## Prerequisites for starter activities in Oracle E-Business Suite

---

This section contains the prerequisites to configure the Oracle E-Business Suite inbound activities.

You must create an event store and triggers in Oracle database as a prerequisite for using the starter activities.

The event store is a table that holds events that represent data changes until the polling connector can process them. The connector uses the event store to keep track of event entities. Each time a database record is created, updated, or deleted, the connector updates the status of the event in the event store. The Event Store Name field can be found in the Configure panel of the Get Created, Get Deleted, and Get Updated activities.

You can set triggers on user tables as needed to populate the event store. For Oracle database, set up triggers on user tables so that changes to the user tables can automatically generate events that are stored in the event store.

### Creating the event store and triggers in Oracle E-Business Suite

---

To create an "Event Store" and "Triggers" in Oracle database, perform the following:

1. Create a new table. For example, if the event store name is configured as IBM\_CI\_EVENTS, use the script available in <STUDIO ROOT>/etc/oracleebs/scripts/IBM\_CI\_EVENTS.SQL. The structure of the event table is described as follows:

Note: It is recommended that a separate event table is created and used for every configured table/view.

Table 1. Event table structure

Column name	Type	Description
event_id	Number	The unique event ID, which is a primary key for the table. This can have the same value as the object_key.
object_key	String	A string that contains the primary key of the record that is retrieved.  This column cannot be null.
object_name	String	Each business object refers to a table or view. The name of the business object is constructed with the schema name and table name.  This column cannot be null.
object_function	String	The operation corresponding to the event (Delete, Create, and Update).  This column cannot be null  .
event_priority	Number	Identifies the event priority. This value must be a positive integer.  This column cannot be null.
event_time	Timestamp	Date and time when event was generated. The format is mm/dd/yyyy hh:mm:ss.
event_status	Â	The event status is initially set to a value for a new event and updated by the adapter as it processes the event. The status can have one of the following values: <ul style="list-style-type: none"><li>o 0: Identifies a new event.</li><li>o 1: Identifies an event that has been delivered to an export.</li><li>o -1: An error occurred while processing the event.</li></ul> This column cannot be null.
event_comment	Â	Any comment associated with the event.
event_message	Â	this is optional. This field can be blank.
xid	Â	this is optional. This field can be blank.

Column name	Type	Description
connector_ID	Â	The unique identifier for the connector instance that receives a specific event.

2. To create Triggers for your table, refer to the sample <STUDIO\_ROOT>/etc/oracleebs/scripts/sample\_trigger.sql. The trigger is used to populate the event store when a row is created, updated, or deleted.

Here is a sample of an insert trigger called event\_create which populates the event store IBM\_CI\_EVENTS when a row is added to the selected table.

```
create or replace
TRIGGER SCOTT.event_create
    after insert on SCOTT.CUSTOMER for each row
begin
    insert into "SCOTT"."IBM_CI_EVENTS"
    (
        event_id
        , object_key
        ,object_name
        ,object_function
        ,event_priority
        ,event_status
    )
    values
    (
        event_sequence.nextval
        ,:new.PKEY
        ,'ScottCustomer'
        ,'Create'
        ,0
        ,0
    );
end;
```

Table 2. Trigger description

Column name	Values
event_id	For a unique event_id, a sequence called event_sequence is used. Or else, you can provide a unique event ID for every row that is inserted.
object_key	This contains the primary key of the record.
object_name	The object name is constructed with the schema name and table name. For example, if the table CUSTOMER is present in Scott's schema, then the value of this property will be ScottCustomer.
object_function	The value of object_function will be Create/Update/Delete depending on whether it is an insert/update/delete trigger.
event_priority	The value of event_priority must be 0 or a positive integer.
event_status	The value of event_status must be 0, so that it is considered as a new event.

**Parent topic:** [Oracle E-Business Suite Activities](#)

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## Using the Oracle E-Business Suite Get Created Objects activity

Use the Get Created Objects activity to get the values of rows that have been newly created in the database tables/views corresponding to the business object in the request.

### About this task

Use this task to get created objects from the Oracle E-Business Suite application. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Oracle E-Business Suite folder contents.
2. Drag the **Get Created Objects** activity from the Oracle E-Business Suite folder onto the orchestration. The graphical representation of the orchestration, including the checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Oracle E-Business Suite endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an endpoint for an Oracle E-Business Suite activity](#).
8. To make the required changes to the selected endpoint configuration, click Edit to access the options in a separate window.  
Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Specify the Event Store name configured in the Oracle database. The activity polls this Event Store for new events.
11. Browse for the Oracle tables/views name in the Oracle Table/View field.
12. In Browse Oracle Database Tables/Views dialog:
  - o Select a user schema from the Filter by user schema drop-down list.
  - o Select either Tables or Views from Database object type.
  - o Use Filter tables/views by name to filter the tables/views during selection.
  - o Select a table/view.
13. Click OK.
14. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying Retry and Delivery options for Oracle E-Business Suite activities](#).
15. Select Map Inputs in the Checklist. The XML schemas generated from the selected object of the Get Created Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
16. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console (WMC). If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
17. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Oracle E-Business Suite Get Created Objects activity.

**Parent topic:** [Oracle E-Business Suite Activities](#)

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## Using the Oracle E-Business Suite Get Updated Objects activity

---

Use the Get Updated Objects activity to get the rows that have been updated in the database tables corresponding to the business object in the request.

## About this task

---

Use this task to get the updated objects in the Oracle E-Business Suite application. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Oracle E-Business Suite folder contents.
2. Drag the **Get Updated Objects** activity from the Oracle E-Business Suite folder onto the orchestration. The graphical representation of the orchestration, including the checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Oracle E-Business Suite endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an endpoint for an Oracle E-Business Suite activity](#).
8. To make the required changes to the selected endpoint configuration, click Edit to access the options in a separate window.  
Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Specify the Event Store name configured in the Oracle database. The activity polls this Event Store for new events.
11. Browse for the Oracle table/view name in the Oracle Table/View field.
12. In Browse Oracle Database Tables/Views dialog:
  - o Select a user schema from the Filter by user schema drop-down list.
  - o Select either Tables or Views from Database object type.
  - o Use Filter tables/views by name to filter the tables/views during selection.
  - o Select a table/view.
13. Click OK.
14. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying Retry and Delivery options for Oracle E-Business Suite activities](#).
15. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Get Updated Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
16. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console (WMC). If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
17. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Oracle E-Business Suite Get Updated Objects activity.

**Parent topic:** [Oracle E-Business Suite Activities](#)

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## Using the Oracle E-Business Suite Get Deleted Objects activity

---

Use the Get Deleted Objects activity to get the deleted records from the Oracle table.

### About this task

---

Use this task to get deleted records from the Oracle E-Business Suite application. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Oracle E-Business Suite folder contents.
2. Drag the **Get Deleted Objects** activity from the Oracle E-Business Suite folder onto the orchestration. The graphical representation of the orchestration, including the checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Oracle E-Business Suite endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an endpoint for an Oracle E-Business Suite activity](#).
8. To make the required changes to the selected endpoint configuration, click Edit to access the options in a separate window.  
Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Specify the Event Store name configured in the Oracle database. The activity polls this Event Store for new events.
11. Browse for the Oracle table/view name in the Oracle Table/View field.
12. In Browse Oracle Database Tables/Views dialog:
  - o Select a user schema from the Filter by user schema drop-down list.
  - o Select either Tables or Views from Database object type.
  - o Use Filter tables/views by name to filter the tables/views during selection.
  - o Select a table/view.
13. Click OK.
14. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying Retry and Delivery options for Oracle E-Business Suite activities](#).
15. Create a map between the orchestration variables and the input parameter of the activity.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Oracle E-Business Suite Get Deleted Objects activity.

**Parent topic:** [Oracle E-Business Suite Activities](#)

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## PeopleSoft activities

---

- [Overview of the PeopleSoft connector](#)
- [Creating or editing an endpoint for a PeopleSoft activity](#)  
Endpoints provide the configuration information that Studio and the Integration Appliance use to connect to a PeopleSoft server. Â
- [Installing JAR files to connect to the PeopleSoft server](#)  
You must copy two JAR files on the same workstation as your Cast Iron Studio installation before you can connect to a PeopleSoft server.
- [Using the PeopleSoft Create Component Interface activity](#)  
Use the PeopleSoft Create Component Interface activity to create new component interfaces on the PeopleSoft server. The newly created component contains data that represent a business entity.
- [Using the PeopleSoft Update Component Interface activity](#)  
Use the PeopleSoft Update Component Interface activity to update component interfaces on the PeopleSoft server. This activity updates the corresponding PeopleSoft component with the incoming business object.
- [Using the PeopleSoft Delete Component Interface activity](#)  
Use the PeopleSoft Delete Component Interface activity to delete component interfaces from the PeopleSoft server. This

activity deletes the PeopleSoft components and its children. Because the connector supports only logical deletes, the components are marked as deleted, but not removed.

- [Using the PeopleSoft Get Component Interface activity](#)

Use the PeopleSoft Get Component Interface activity to retrieve component interfaces from the PeopleSoft server. With this activity you can access the PeopleSoft component and retrieve values from the PeopleSoft server.

- [Using the PeopleSoft Find Component Interface activity](#)

Use the PeopleSoft Find Component Interface activity to retrieve all the component interfaces from the PeopleSoft server. This activity behaves like the PeopleSoft Get Component Interface activity, except that it retrieves multiple instances of the same PeopleSoft component that match the input criteria.

- [Creating events table and compiling PeopleSoft JAR files](#)

The first of the two required JAR files, which will be named PSFTCI.jar, must be manually built and compiled.

- [Using the PeopleSoft Get Created Component Interface activity](#)

Use the Get Created Component Interface activity to poll for created objects in the PeopleSoft server.

- [Using the PeopleSoft Get Updated Component Interface activity](#)

Use the Get Updated Component Interface activity to poll for updated events in the PeopleSoft server.

- [Using the PeopleSoft Get Deleted Component Interface activity](#)

Use the Get Deleted Component Interface activity to poll for deleted events in the PeopleSoft server.

- [Specifying retry and Delivery Options for PeopleSoft Activities](#)

Specifying the Retry and Delivery parameters is one of the tasks to configure a PeopleSoft activity configuration.

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## Overview of the PeopleSoft connector

---

The PeopleSoft connector enables you to create integrated processes that exchange information with PeopleSoft Enterprise through a standard interface. This interface shields the client application from analyzing lower-level details about implementation of the application or data structures used on the PeopleSoft Enterprise server.

You can perform the following activities using the PeopleSoft connector:

- Outbound Activities
  - [Create Component Interface](#)
  - [Update Component Interface](#)
  - [Delete Component Interface](#)
  - [Get Component Interface](#)
  - [Find Component Interface](#)
- Inbound/Starter Activities
  - [Get Created Component Interface](#)
  - [Get Updated Component Interface](#)
  - [Get Deleted Component Interface](#)

The PeopleSoft connector supports the following versions of the PeopleTools: 8.22, 8.40 - 8.49, 8.50, and 8.51.

Note: The connector is compatible with any version of PeopleSoft Applications that works with the version of PeopleTools supported by the adapter.

The PeopleSoft connector requires PeopleSoft JAR files to connect to the PeopleSoft server. For more information, see [Installing JAR files to connect to the PeopleSoft server](#) and [Creating events table and compiling PeopleSoft JAR files](#).

**Parent topic:** [PeopleSoft activities](#)

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## Creating or editing an endpoint for a PeopleSoft activity

Endpoints provide the configuration information that Studio and the Integration Appliance use to connect to a PeopleSoft server.

### Selecting or editing a PeopleSoft endpoint

1. In the Create Endpoint or Edit Endpoint pane, configure the PeopleSoft server as described in the following table. In addition to these fields, the endpoint pane contains Connection pool options and Remote Endpoint Configuration.  
Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.
2. Click Test Connection to confirm that the connection details are valid and you are able to connect to the PeopleSoft server successfully.
3. Click OK.

Table 1. Connection properties

Field Name	Description
<b>PeopleSoft Server Configuration</b>	
Host Name	Specifies the host name or IP address of the machine on which PeopleSoft server is running.
Port	Specifies the PeopleSoft Internet port that allows Javaâ„¢ applets or applications to access PeopleSoft data.
User Name	Specifies the user name to connect to the PeopleSoft server.
Password	Specifies the password associated with the user name to connect to the PeopleSoft server.
Language Code	Specifies the language code to connect to the PeopleSoft server. There are 22 language codes listed. The default code is ENG.
<b>Connection Pool options</b>	
Minimum Connections	Specifies the lowest number of PeopleSoft server connections that the Integration Appliance keeps open in the connection pool. Entering 0 (zero) is supported. The default value is 5.
Maximum Connections	Specifies the maximum number of PeopleSoft server connections that the Integration Appliance can keep open in the connection pool. Entering 0 (zero) means the maximum number of connections is unbounded. The default value is 25.
Maximum Idle Time	Specifies the amount of time in minutes that a PeopleSoft server connection can be open in an idle state before being closed by the Integration Appliance. Entering 0 (zero) means that the connections are closed when they are returned to the pool â€œno idle time. The default value is 120 minutes.
Maximum Wait	Specifies the amount of time in seconds that the Integration Appliance waits for a connection when all the connections in the pool are exhausted. If no connection is obtained after the wait time, an exception is thrown. The default value is 300 seconds.
Reclaim Connections	Specifies the interval at which the connector checks for idle connections. Idle connections are reclaimed until the minimum number of connections is reached, as specified in the Minimum Connections parameter. The default value is 5 minute.
Note: The Connection pool properties need to be configured as per the load (number of concurrent requests) on the endpoint.	
<b>Remote Endpoint Configuration</b>	
Endpoint Runs Behind Firewall	Enables the secure connector name property so that secure connector can be used if the PeopleSoft server is running behind a firewall.
Secure Connector Name	Specifies the name of the secure connector that is used to connect to the PeopleSoft server running behind a firewall. For example, if an orchestration containing PeopleSoft activity is deployed on to Cast Iron Live (cloud), then the secure connector needs to be configured.

Parent topic: [PeopleSoft activities](#)

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## Installing JAR files to connect to the PeopleSoft server

---

You must copy two JAR files on the same workstation as your Cast Iron Studio installation before you can connect to a PeopleSoft server.

### Before you begin

---

- The JAR files can be obtained from the PeopleSoft system administrator.
- The JAR files must be on the same computer as the studio installation.
- The JAR files must be from the same version as the PeopleSoft server you connect to.

For more information about creating event tables and compiling PeopleSoft JAR files, see [Creating events table and compiling PeopleSoft JAR files](#).

### About this task

---

The files to be installed are:

- PSFTCI.jar
- psjoi.jar

### Procedure

---

1. Open studio and select Tools > Install Module Providers.
2. When the Add Provider(s) dialog box is displayed, click the plus (+) button under PeopleSoft Connector. A field and a Browse button appears.
3. Click Browse, and use the browse dialog box to locate and select the JAR files.
4. Click Open to import the selected files.
5. When the JAR files are listed in the Add Provider(s) dialog box, click OK.

### Results

---

A prompt is displayed to restart studio and activate the changes.

### What to do next

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You can now create PeopleSoft endpoints and orchestrations.

**Parent topic:** [PeopleSoft activities](#)

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## Using the PeopleSoft Create Component Interface activity

---

Use the PeopleSoft Create Component Interface activity to create new component interfaces on the PeopleSoft server. The newly created component contains data that represent a business entity.

## Before you begin

---

Ensure that you have:

- Installed the JAR files required to connect to the PeopleSoft server. For more information, see [Installing JAR files to connect to the PeopleSoft server](#).
- Valid connection details to connect to the PeopleSoft server.

## About this task

---

Use this task to create component interfaces on the PeopleSoft server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the PeopleSoft folder contents.
2. Drag the Create Component Interface activity icon onto the orchestration. The PeopleSoft Create Component Interface Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant PeopleSoft endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an endpoint for a PeopleSoft activity](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Browse for the component interface name in the Component Interface field. Component interface name is populated with a default value, which represents the PeopleSoft interface. Browse for the component interface name if it is not same as the default value. All the metadata needed for discovering the objects are retrieved from this component interface.
11. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry and Delivery Options for PeopleSoft Activities](#).
12. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Create Component Interface activity are displayed as nodes under the request input parameter in the To Activity panel.  
Note: The PeopleSoft connector generates a single input schema for all the objects used by the activities. There may be some fields that are redundant and not applicable for this activity.
13. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console (WMC). If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
14. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
15. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the PeopleSoft Create Component Interface activity.

**Parent topic:** [PeopleSoft activities](#)

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## Using the PeopleSoft Update Component Interface activity

---

Use the PeopleSoft Update Component Interface activity to update component interfaces on the PeopleSoft server. This activity updates the corresponding PeopleSoft component with the incoming business object.

## Before you begin

---

Ensure that you have:

- Installed the JAR files required to connect to the PeopleSoft server. For more information, see [Installing JAR files to connect to the PeopleSoft server](#).
- Valid connection details to connect to the PeopleSoft server.

## About this task

---

Use this task to update component interfaces on the PeopleSoft server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the PeopleSoft folder contents.
2. Drag the Update Component Interface activity icon onto the orchestration. The PeopleSoft Update Component Interface Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant PeopleSoft endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an endpoint for a PeopleSoft activity](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Browse for the component interface name in the Component Interface field. Component interface name is populated with a default value, which represents the PeopleSoft interface.
  - a. In the Browse component interface window, browse for the component interface name if it is not same as the default value. All the metadata needed for discovering the objects are retrieved from this component interface.
  - b. Click Next. The Preserve child relationship window is displayed.
  - c. Select the child business objects from the populated list, and click Finish to complete configure.
11. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry and Delivery Options for PeopleSoft Activities](#).
12. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Update Component Interface activity are displayed as nodes under the request input parameter in the To Activity panel.
13. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console (WMC). If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
14. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
15. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the PeopleSoft Update Component Interface activity.

**Parent topic:** [PeopleSoft activities](#)

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## Using the PeopleSoft Delete Component Interface activity

---

Use the PeopleSoft Delete Component Interface activity to delete component interfaces from the PeopleSoft server. This activity deletes the PeopleSoft components and its children. Because the connector supports only logical deletes, the components are marked as deleted, but not removed.

### Before you begin

---

Ensure that you have:

- Installed the JAR files required to connect to the PeopleSoft server. For more information, see [Installing JAR files to connect to the PeopleSoft server](#).
- Valid connection details to connect to the PeopleSoft server.

### About this task

---

Use this task to delete component interface from the PeopleSoft server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the PeopleSoft folder contents.
2. Drag the Delete Component Interface activity icon onto the orchestration. The PeopleSoft Delete Component Interface Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant PeopleSoft endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an endpoint for a PeopleSoft activity](#).
8. To make required changes to the selected endpoint configuration, click Edit and access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Browse for the component interface name in the Component Interface field. Component interface name is populated with a default value, which represents the PeopleSoft interface.
  - a. In the Browse component interface window, browse for the component interface name if it is not same as the default value. All the metadata needed for discovering the objects are retrieved from this component interface.
  - b. Click Next. The Logical delete window is displayed.
  - c. Select a field from the Field name for logical delete drop-down list.
  - d. Specify the value of the deleted object in the Value to indicate deleted object field, and click Finish to complete configure.
11. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry and Delivery Options for PeopleSoft Activities](#).
12. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Delete Component Interface activity are displayed as nodes under the request input parameter in the To Activity panel.
13. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console (WMC). If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
14. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
15. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the PeopleSoft Delete Component Interface activity.

**Parent topic:** [PeopleSoft activities](#)

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## Using the PeopleSoft Get Component Interface activity

---

Use the PeopleSoft Get Component Interface activity to retrieve component interfaces from the PeopleSoft server. With this activity you can access the PeopleSoft component and retrieve values from the PeopleSoft server.

### Before you begin

---

Ensure that you have:

- Installed the JAR files required to connect to the PeopleSoft server. For more information, see [Installing JAR files to connect to the PeopleSoft server](#).
- Valid connection details to connect to the PeopleSoft server.

### About this task

---

Use this task to retrieve component interfaces from the PeopleSoft server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the PeopleSoft folder contents.
2. Drag the Get Component Interface activity icon onto the orchestration. The PeopleSoft Get Component Interface Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant PeopleSoft endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an endpoint for a PeopleSoft activity](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Browse for the component interface name in the Component Interface text box. Component interface name is populated with a default value, which represents the PeopleSoft interface. Browse for the component interface name if it is not same as the default value. All the metadata needed for discovering the objects are retrieved from this component interface.
11. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry and Delivery Options for PeopleSoft Activities](#).
12. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Get Component Interface activity are displayed as nodes under the request input parameter in the To Activity panel.  
Note: The PeopleSoft connector generates a single input schema for all the objects used by the activities. There may be some fields that are redundant and not applicable for this activity. You must set the GETKEYS field for this activity. For Wbi\_Customer\_Ci component interface, you must specify the value for the customerid field.
13. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console (WMC). If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
14. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
15. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the PeopleSoft Get Component Interface activity.

**Parent topic:** [PeopleSoft activities](#)

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## Using the PeopleSoft Find Component Interface activity

---

Use the PeopleSoft Find Component Interface activity to retrieve all the component interfaces from the PeopleSoft server. This activity behaves like the PeopleSoft Get Component Interface activity, except that it retrieves multiple instances of the same PeopleSoft component that match the input criteria.

### Before you begin

---

Ensure that you have:

- Installed the JAR files required to connect to the PeopleSoft server. For more information, see [Installing JAR files to connect to the PeopleSoft server](#).
- Valid connection details to connect to the PeopleSoft server.

### About this task

---

Use this task to find component interfaces in the PeopleSoft server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the PeopleSoft folder contents.
2. Drag the Find Component Interface activity icon onto the orchestration. The PeopleSoft Find Component Interface Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant PeopleSoft endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an endpoint for a PeopleSoft activity](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Browse for the component interface name in the Component Interface text box. Component interface name is populated with a default value, which represents the PeopleSoft interface. Browse for the component interface name if it is not same as the default value. All the metadata needed for discovering the objects are retrieved from this component interface.
11. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry and Delivery Options for PeopleSoft Activities](#).
12. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Find Component Interface activity are displayed as nodes under the request input parameter in the To Activity panel. The PeopleSoft connector generates a single input schema for all the objects used by the activities. There may be some fields that are redundant and not applicable for this activity. You must set the FINDKEYS field for this activity. For the `Wbi_Customer_Ci` component interface, you must specify either the `customerid` field or the `customerfirstname` field value, or both.
13. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a

mandatory element, the activity throws an exception, which is reported by the Web Management Console (WMC). If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

14. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
15. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the PeopleSoft Find Component Interface activity.

**Parent topic:** [PeopleSoft activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/PeopleSoft\\_find\\_component.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/PeopleSoft_find_component.html)

## Creating events table and compiling PeopleSoft JAR files

---

The first of the two required JAR files, which will be named `PSFTCI.jar`, must be manually built and compiled.

PeopleSoft connector polls the PeopleSoft Enterprise server at specified intervals for events. When the connector detects an event, it converts the event data into a business object and sends it to the client application. To use this scenario, you must create a custom event project in PeopleSoft Enterprise server.

### Event store

---

The event store is a table that holds events that represent data changes until the polling connector can process them. The connector uses the event store to keep track of event entities. To use inbound processing, you must use PeopleTools Application Designer to create a custom project for event notification. The custom project creates the event store the connector needs for inbound processing. Each time a business object is created, updated, or deleted, the PeopleCode function used in the project and then added to the component interface inserts a new record in the event store, with the appropriate object name, keys, and status value.

During inbound processing, the connector polls the events from the event store at configured poll intervals. In each poll call, a configured number of events are processed by the connector. The order of event processing is based on the ascending order of priority and the ascending order of the event time stamp. The events with the Ready for poll (0) status are picked up for polling in each poll cycle. The connector uses the object name and object key to retrieve the corresponding business object. As events are retrieved from the event store and processed, the status of the event changes to reflect its state, as shown in the following table.

Table 1. Event status values

Status short name	Description	Event Table Value
Error processing event	An error occurred during event processing.	-1
Ready for poll	The event is ready to be picked up.	0
Success	The event has been delivered to the event manager.	1
Deleted	The event has been processed successfully and is removed from the event store.	4

### I. To create the events table

---

Ensure that the following steps are met for configuring and compiling the PeopleSoft JAR files.

- Creating Events Table
- Add the trigger to WBI\_CUSTOMER\_COMP component
- Create the Java API for Component Interface

1. Copy `WBI_CUST_PROJ` project located at <Cast Iron Installation directory>\etc\peoplesoft\scripts to a temp directory (`C:\Projects`) on the machine where the PeopleTools runs.
2. Log on to the PeopleSoft application designer, and select Tools > Copy Project > From File.

3. Browse to C:\Projects directory. From the Select Project from the List Below, double-click WBI\_CUST\_PROJ.
4. In the Copy From File dialog, click Copy. Wait for the operation to complete.
5. Select WBI\_CUST\_PROJ in the left panel, and then select Build > Project from the main menu.
6. In the Build panel, select the following check boxes:
  - Create Tables
  - Create Views
  - Create Trigger
  - Run and build script
7. Click Build, to begin to build the project.
8. Click Close, to exit the Build Progress dialog.
9. In the Build Log view of the application designer, check the log messages to confirm that three records were processed correctly.
10. Select File > Save All to save the changes.
11. To configure the user security for the Component Interfaces, log onto PeopleSoft Web Client with the URL:  
<http://localhost/psp/ps/?cmd=login>.
12. Go to PeopleTools > Security > Permissions & Roles > Permission Lists.
13. Specify PTPT1200 in the edit box of begins with and click Search.
14. Go to the Component Interfaces tab, click + to add the Component Interface WBI\_CUSTOMER\_COMP\_INTERFACE.
15. Click Edit of WBI\_CUSTOMER\_COMP\_INTERFACE.
16. Select Full Access for all methods and click OK.
17. Go back to the Component Interfaces tab, click + to add the Component Interface IBM\_EVENT\_CI.
18. Click Edit of IBM\_EVENT\_CI.
19. Select Full Access for all methods and click OK.
20. Go back to the Component Interfaces tab and press Save button to save the changes.

## II. To add triggers

---

1. In PeopleSoft application designer, open WBI\_CUST\_PROJ project.
  2. In the left panel, right-click on WBI\_CUSTOMER\_COMP and select View PeopleCode.
  3. In the PeopleCode edit window, select SavePostChange in the right panel.
  4. Type the following PeopleCode in the edit window.
- ```
Declare Function IBMPublishEvent PeopleCode IBM_FETCH_ID.IBM_NEXT_EVENT_ID FieldFormula;
Component string &BONAME1; Component string &KEYLIST1;
&BONAME1 = "WbiCustomerCompInterface";
&KEYLIST1 = "WBI_CUSTOMER.WBI_CUSTOMER_ID"; /* Check if Component Changed before calling
function*/ If ComponentChanged() And %UserId <> "C" Then /* Publish this event to the IBM
WebSphere IBM_EVENT_TBL for polling */ IBMPublishEvent(&BONAME1; &KEYLIST1); End-If;
```
5. Select File > Save All to save the changes.
  6. To ensure the trigger that was created in the steps above can work well, you need to do some initialization work. Connect to the database that PeopleTools uses, and run the following SQL statement:
- ```
$ insert into PS_IBM_FETCH_ID values(1000);
$ commit;
```

## III. To create the Java API for Component Interface

---

The Component Interface API provides access to all the objects and PeopleCode methods. You can manually generate these API using the application designer, and then compile them to a PSFTCI.jar file.

1. In PeopleSoft application designer, open IBM\_EVENT\_CI Component Interface.
2. Select Build > PeopleSoft API from the main menu.
3. In the Build PeopleSoft API Bindings dialog, make sure only the Build check box under Java Classes is selected. Set the Target Directory for storing the generated Java files.  
 In the Select API to Build list, select the following items:
  - CompIntfc.CompIntfcPropertyInfo
  - CompIntfc.CompIntfcPropertyInfoCollection
  - All beginning with CompIntfc.IBM\_EVENT\_CI
  - All beginning with CompIntfc.WBI\_CUSTOMER\_COMP\_INTERFACE
4. Click OK. Check the target directory to make sure the Java files are generated correctly.
5. Copy the generated Java files to C:\Temp directory, then copy psjoa.jar file from <PeopleTools\_HOME>\web\psjoa to C:\Temp directory.
6. Enter directory as C:\Temp and run the following commands to build the Java files.

```
$ javac -classpath .\psjobj.jar PeopleSoft\Generated\CompIntfc\*.java  
$ jar -cvf PSFTCI.jar PeopleSoft\Generated\CompIntfc\*.class
```

These two JAR files `psjobj.jar` and `PSFTCI.jar` would be used by PeopleSoft connector to access the PeopleSoft Enterprise application.

**Parent topic:** [PeopleSoft activities](#)

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## Using the PeopleSoft Get Created Component Interface activity

---

Use the Get Created Component Interface activity to poll for created objects in the PeopleSoft server.

### Before you begin

---

Ensure that you have:

- Installed the necessary vendor software JAR files.
- The valid connection details to connect to the PeopleSoft server.
- Configured the *EventStore* business objects and triggers to generate events. For more information, see [Creating events table and compiling PeopleSoft JAR files](#).

### About this task

---

Use this task to poll for events created on the PeopleSoft server.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the PeopleSoft folder contents.
2. Drag the Get Created Component Interface activity icon onto the orchestration. The PeopleSoft Get Created Component Interface Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant PeopleSoft endpoint.
7. You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an endpoint for a PeopleSoft activity](#).
8. To make any required changes to the selected endpoint configuration, click Edit to access the options in a separate window.  
Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Specify the Event Store Name configured in the PeopleSoft server. The activity polls this event store for new events. The Event Store Name field is populated with a default value, specify the event store name configured in PeopleSoft server if it is not same as the default value.
11. Specify the component interface name in the Component Interface field, or browse for the required component interface.
12. In the Checklist, click Retry. Review the default settings and make the required changes. Similarly, configure the **Delivery Rules** panel. For more information, see [Specifying retry and Delivery Options for PeopleSoft Activities](#).

The activity polls the event store at configured interval for create events and fetches the actual object for that event. This object is sent to the orchestration. After processing, the event is marked as archived in the event store.

13. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
14. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the PeopleSoft Get Created Component Interface activity.

**Parent topic:** [PeopleSoft activities](#)

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## Using the PeopleSoft Get Updated Component Interface activity

---

Use the Get Updated Component Interface activity to poll for updated events in the PeopleSoft server.

### Before you begin

---

Ensure that you have:

- Installed the necessary vendor software JAR files.
- The valid connection details to connect to the PeopleSoft server.
- Configured the *EventStore* business objects and triggers to generate events. For more information, see [Creating events table and compiling PeopleSoft JAR files](#).

### About this task

---

Use this task to poll for events updated on the PeopleSoft server.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the PeopleSoft folder contents.
2. Drag the Get Updated component Interface activity icon onto the orchestration. The PeopleSoft Get Updated Component Interface Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant PeopleSoft endpoint.
7. You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an endpoint for a PeopleSoft activity](#).
8. To make any required changes to the selected endpoint configuration, click Edit to access the options in a separate window.  
Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Specify the Event Store Name configured in the PeopleSoft server. The activity polls this event store for new events. The Event Store Name field is populated with a default value, specify the event store name configured in PeopleSoft server if it is not same as default value.
11. Specify the component interface name in the ComponentInterface field, or browse for the required component interface.
12. In the Checklist, click Retry. Review the default settings and make the required changes. Similarly, configure the **Delivery Rules** panel. For more information, see [Specifying retry and Delivery Options for PeopleSoft Activities](#).

The activity polls the event store at configured interval for create events and fetches the actual object for that event. This object is sent to the orchestration. After processing, the event is marked as archived in the event store.

13. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
14. Create a map between the output parameters and orchestration variables.

---

## Results

You have configured the PeopleSoft Get Updated Component Interface activity.

**Parent topic:** [PeopleSoft activities](#)

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## Using the PeopleSoft Get Deleted Component Interface activity

---

Use the Get Deleted Component Interface activity to poll for deleted events in the PeopleSoft server.

### Before you begin

---

Ensure that you have:

- Installed the necessary vendor software JAR files.
- The valid connection details to connect to the PeopleSoft server.
- Configured the *EventStore* business objects and triggers to generate events. For more information, see [Creating events table and compiling PeopleSoft JAR files](#).

### About this task

---

Use this task to poll for events deleted on the PeopleSoft server.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the PeopleSoft folder contents.
2. Drag the Get Deleted Component Interface activity icon onto the orchestration. The PeopleSoft Get Deleted Component Interface Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant PeopleSoft endpoint.
7. You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing an endpoint for a PeopleSoft activity](#).
8. To make any required changes to the selected endpoint configuration, click Edit to access the options in a separate window.  
Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Specify the Event Store Name configured in the PeopleSoft server. The activity polls this event store for new events. The Event Store Name field is populated with a default value, specify the event store name configured in PeopleSoft server if it is not same as default value.
11. Specify the component interface name in the Component Interface field, or browse for the required component interface.
12. In the Checklist, click Retry. Review the default settings and make the required changes. Similarly, configure the **Delivery Rules** panel. For more information, see [Specifying retry and Delivery Options for PeopleSoft Activities](#).

The activity polls the event store at configured interval for create events and fetches the actual object for that event. This object is sent to the orchestration. After processing, the event is marked as archived in the event store.

13. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
14. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the PeopleSoft Get Deleted Component Interface activity.

**Parent topic:** [PeopleSoft activities](#)

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## Specifying retry and Delivery Options for PeopleSoft Activities

---

Specifying the Retry and Delivery parameters is one of the tasks to configure a PeopleSoft activity configuration.

### About this task

---

This section contains the procedure for configuring the retry options for PeopleSoft outbound and inbound activities.

### Procedure

---

1. Select the Retry task from the Checklist. The retry pane is displayed.
2. Configure the retry options for connecting to a PeopleSoft server as described in the following table.

Table 1. Retry options

Retry Fields	Description
Wait -- seconds between each retry .	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the PeopleSoft server.
Try to connect -- times before failing.	Specifies the retry count – the maximum number of times the Integration Appliance attempts to establish a connection to the PeopleSoft server before issuing an error and stopping the processing of the current orchestration job.  Note: If you deploy an orchestration that contains the inbound or outbound PeopleSoft activity and the Integration Appliance cannot connect to the specified PeopleSoft server, the Integration Appliance logs the connection errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.

**Parent topic:** [PeopleSoft activities](#)

## Specifying the delivery rules options for PeopleSoft inbound activities

---

### About this task

This section contains the procedure for configuring the delivery rule options for PeopleSoft inbound activities.

### Procedure

1. Select the Delivery Rules task from the Checklist. The delivery rules pane is displayed.

2. Configure the delivery rules options to select the activity's behavior as described in the following table.

Table 2. Delivery rules

Delivery Rules Fields	Description
Poll for changes every _____ days/hours/minutes/seconds	Specifies the time interval to poll for objects in the PeopleSoft server. (For example, the Get Component Interfaces activity polls for Create Component Interfaces activity at the specified time internal.) Time can be selected in the format days, hours, minutes, or seconds.
Fetch _____ rows per poll	Specifies how many objects or components the activity should retrieve from the PeopleSoft server in each poll cycle.
Delivery Messages	
ATMOST_ONCE	A non-persistent mode in which a PeopleSoft component interfaces is either delivered once or not delivered at all.

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## QuickBooks Activities

---

- [Services Provided](#)
- [Creating or editing an endpoint for Intuit QuickBooks activity](#)  
Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to an Intuit QuickBooks. QuickBooks uses token based authentication mechanism to authenticate and authorize users to perform operations.
- [QuickBooks Supported Objects](#)
- [Using the QuickBooks Create activity](#)
- [Using the QuickBooks Delete activity](#)
- [Using the QuickBooks Update activity](#)
- [Using the QuickBooks Query activity](#)
- [Using the QuickBooks Retrieve activity](#)

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## Services Provided

---

The QuickBooks Intuit platform provides rich web services and API support via Intuit Partner Platform, which allows creating, retrieving, editing and integrating objects.

The Cast Iron connector for QuickBooks shall use these API functions, which allows users to interact with the platform and shall enable users to create, retrieve and modify various types of objects available on the platform.

Popular Services

- Credit card processing
- Download Center
- QuickBooks Store

#### Business Services

- Payment Processing
- Training services
- Payroll
- Field Service Management
- Custom Programming / reporting / interface

#### QuickBooks Extras

- Field Service Management
- e-commerce Web store Integration
- Cloud server hosting
- Antivirus

The depth and flexibility of QuickBooks™ integration is as follows:

- Has access to all objects in the Intuit platform such as Bill, Vendor and Purchase etc.
- Is completely flexible, letting user customize any business process for how leads are updated, handed to sales, or clawed back
- Is compatible with any CRM system user select
- Allows marketing and sales each to manage their own unique data model, but define exactly which fields are to be synchronized
- Is set up with one click, out of the box, for any new client, but can grow to accommodate any business process.

**Parent topic:** [QuickBooks Activities](#)

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## Creating or editing an endpoint for Intuit QuickBooks activity

Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to an Intuit QuickBooks. QuickBooks uses token based authentication mechanism to authenticate and authorize users to perform operations.

The QuickBooks REST APIs are authenticated using OAuth 1.0 Required connection parameters.

To generate the OAuth token, the first step is to create an app on the QuickBooks portal and connect to that created App. Check the link for more details:

<https://developer.intuit.com/v2/ui#/app/startcreate>

Note: The default access token duration is 120 seconds but if the customer keeps it blank then the value taken is 180 days.

1. Next is, the customer has to explicitly authorize the App through the option available on the portal after which the customer is provided with Consumer Key and Consumer Secret.

Note: Consumer key and Consumer Secret will remain same. Access Token and Access Secret Token expires after the specified duration is elapsed

Table 1. Connection properties

Property Name	Label on Test Connection screen
OAuthConsumerKey	OAuth Consumer Key
OAuthConsumerSecret	OAuth Consumer Secret
OAuthAccessToken	OAuth Access Token

OauthTokenSecret	OAuth Token Secret
HostName	Host Name
CompanyId	Company Id

- Regeneration of Access Token
- Required connection Headers

**Parent topic:** [QuickBooks Activities](#)

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## Regeneration of Access Token

Note: Please note that the generation and regeneration of OAuth token is user's responsibility and the IBM Cast Iron Connector for QuickBooks doesn't handle this.

Before the token expires, your app can obtain a new token to provide uninterrupted service by calling the [Reconnect API](#).

The following conditions must be met in order to renew the OAuth access token:

- The renewal must be made within 30 days of token expiry. Note that when your app received the token during the OAuth grant, the expiry date was calculated (180 days).
- The current token must still be active.

The auto-renewal strategy helps to track the expiry as follows:

- Keep track of when the token expires (180 days after you get it).
- Wait 151 days (this is now within 30 days of token expiration), call the "Reconnect API" to get a new token.
- Start over with #1 after getting new token.

**Parent topic:** [Creating or editing an endpoint for Intuit QuickBooks activity](#)

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## Required connection Headers

Following connection headers are required in each API request.

1. **Authorization:** Each API request must include an Authorization header.

Provide "OAuth" followed by space and OAuth 1.0 token entered by user as its value.

For example: The header will look like as below in case of OAuth 1.0 authentication.

*Authorization: 2YotnFZFEjr1zCsicMWpAA*

Connector generates this authorization header based on OAuth parameter values provided by user in endpoint configuration.

**Note:** Connector will not generate OAuth 1.0 token. User will have to generate it directly from QuickBooks portal and provide it to the connector for authentication.

1. **Content-Type:** Each API request must include Content-Type header. The value of the header depends upon the format of request body.

If request body has data in XML format, then provide Application/xml as its value.

For example: The header will look like as below in case of xml.

*Content-Type: Application/xml*

**Parent topic:** [Creating or editing an endpoint for Intuit QuickBooks activity](#)

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## QuickBooks Supported Objects

---

Following are the supported objects in the IBM Cast Iron Connector for QuickBooks

Following QuickBooks objects will be supported by QuickBooks connector.

Objects are classified into 3 entities:

### Transaction Entities

- Bill
- BillPayment
- CreditMemo
- Estimate
- Invoice
- JournalEntry
- Payment
- Purchase
- PurchaseOrder
- RefundReceipt
- SalesReceipt
- TimeActivity
- VendorCredit

### Name List Entities

- Account
- Budget
- Class
- Customer
- Department
- Employee
- Item
- PaymentMethod
- TaxAgency
- TaxCode
- TaxRate
- TaxService
- Term
- Vendor

### Supporting Entities

- Attachable
- CompanyInfo
- Preferences

Operations supported by QuickBooks objects

1. Create
2. Delete
3. Update
4. Retrieve
5. Query

Due to Cast Iron platform limitation, the XSD `choice` element is not handled appropriately.

So, for all the operation supported by the IBM Cast Iron Connector for QuickBooks, wherever the input schema displays a `choice` XSD element, the user should provide only one of the values. If there are multiple values provided, the connector returns appropriate error message.

**Parent topic:** [QuickBooks Activities](#)

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## Using the QuickBooks Create activity

---

Use the QuickBooks Create activity to create objects in the QuickBooks instance.

Use this task to create objects in the QuickBooks instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

1. In an active orchestration, open the **Activities** tab and expand the QuickBooks folder contents.
2. Drag the **Create** activity icon onto the orchestration. The QuickBooks Create Object **Checklist** is displayed.
3. In the **Checklist**, click **Pick Endpoint**.
4. Click **Browse** and use the **Project Explorer** dialog box to select the relevant QuickBooks endpoint.
5. In the **Checklist**, click **Configure**.
6. Click **Browse** to select the object type. The **Browse** QuickBooks window is displayed.
7. Select the **Map Inputs** in the **Checklist**. The XML Schemas generated from the selected object of the **Create Objects** activity are displayed as nodes under the request input parameter in the **To Activity** panel.
8. Create a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the **Map Outputs** in the **Checklist**. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Create a map between the output parameters and orchestration variables.

You have configured the QuickBooks Create Objects activity.

**Parent topic:** [QuickBooks Activities](#)

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[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016

## Using the QuickBooks Delete activity

---

Use the QuickBooks Delete activity to delete objects in the QuickBooks instance.

Use this task to delete objects in the QuickBooks instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

1. In an active orchestration, open the **Activities** tab and expand the QuickBooks folder contents.
2. Drag the **Delete** activity icon onto the orchestration. The QuickBooks Delete Object **Checklist** is displayed.
3. In the **Checklist**, click **Pick Endpoint**.
4. Click **Browse** and use the **Project Explorer** dialog box to select the relevant QuickBooks endpoint.
5. In the **Checklist**, click **Configure**.
6. Click **Browse** to select the object type. The **Browse** QuickBooks window is displayed.
7. Select the **Map Inputs** in the **Checklist**. The XML Schemas generated from the selected object of the **Delete Objects** activity are displayed as nodes under the request input parameter in the **To Activity** panel.
8. Delete a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the **Map Outputs** in the **Checklist**. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Delete a map between the output parameters and orchestration variables.

You have configured the QuickBooks Delete Objects activity.

**Parent topic:** [QuickBooks Activities](#)

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## Using the QuickBooks Update activity

---

Use the QuickBooks Update activity to update objects in the QuickBooks instance.

Use this task to update objects in the QuickBooks instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

1. In an active orchestration, open the **Activities** tab and expand the QuickBooks folder contents.
2. Drag the **Update** activity icon onto the orchestration. The QuickBooks Update Object **Checklist** is displayed.
3. In the **Checklist**, click **Pick Endpoint**.
4. Click **Browse** and use the **Project Explorer** dialog box to select the relevant QuickBooks endpoint.
5. In the **Checklist**, click **Configure**.
6. Click **Browse** to select the object type. The **Browse** QuickBooks window is displayed.
7. Select the **Map Inputs** in the **Checklist**. The XML Schemas generated from the selected object of the **Update Objects** activity are displayed as nodes under the request input parameter in the **To Activity** panel.
8. Update a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory

element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the **Map Outputs** in the **Checklist**. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Update a map between the output parameters and orchestration variables.

You have configured the QuickBooks Update Objects activity.

**Parent topic:** [QuickBooks Activities](#)

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## Using the QuickBooks Query activity

---

Use the QuickBooks Query activity to Query objects in the QuickBooks instance.

Use this task to Query objects in the QuickBooks instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

1. In an active orchestration, open the **Activities** tab and expand the QuickBooks folder contents.
2. Drag the **Query** activity icon onto the orchestration. The QuickBooks Query Object **Checklist** is displayed.
3. In the **Checklist**, click **Pick Endpoint**.
4. Click **Browse** and use the **Project Explorer** dialog box to select the relevant QuickBooks endpoint.
5. In the **Checklist**, click **Configure**.
6. Click **Browse** to select the object type. The **Browse** QuickBooks window is displayed.
7. Select the **Map Inputs** in the **Checklist**. The XML Schemas generated from the selected object of the **Query Objects** activity are displayed as nodes under the request input parameter in the **To Activity** panel.

Query supports 2 types of input methods. They are: 1) Query string 2) Filters.

- Query String: User must provide a Query string as per the QuickBooks query format and accordingly the response would be generated.
- Filters: Adding filters help to generate a response based on the values provided in the fields which are `~Fieldname~`, `~Operator~` and `~Value~`.
  - For specific filter operator like `In`, user must provide only comma separated values as a part of input string.

Query also supports pagination. (I.e. limit and offset) Pagination is applicable only for `Filter` method.

**Note:** If user doesn't provide any specific values either in Query String or in Filters, then by default all the values present in the table gets displayed.

1. Query a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the **Map Outputs** in the **Checklist**. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Query a map between the output parameters and orchestration variables.

You have configured the QuickBooks Query Objects activity.

**Parent topic:** [QuickBooks Activities](#)

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## Using the QuickBooks Retrieve activity

---

Use the QuickBooks Retrieve activity to retrieve objects in the QuickBooks instance.

Use this task to retrieve objects in the QuickBooks instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

1. In an active orchestration, open the **Activities** tab and expand the QuickBooks folder contents.
2. Drag the **Retrieve** activity icon onto the orchestration. The QuickBooks Retrieve Object **Checklist** is displayed.
3. In the **Checklist**, click **Pick Endpoint**.
4. Click **Browse** and use the **Project Explorer** dialog box to select the relevant QuickBooks endpoint.
5. In the **Checklist**, click **Configure**.
6. Click **Browse** to select the object type. The **Browse** QuickBooks window is displayed.
7. Select the **Map Inputs** in the **Checklist**. The XML Schemas generated from the selected object of the **Retrieve Objects** activity are displayed as nodes under the request input parameter in the **To Activity** panel.

Retrieve supports 2 types of input methods. They are: 1) RetrieveAll 2) RetrieveById

- **RetrieveAll** : If the value for parameter `retrievalAll` is set to `true`, then it retrieves the complete data for that object.
- **RetrieveById**: If user provides value for Id, then it retrieves the data for that object based on that ID.

RetrieveAll supports pagination (i.e. `limit` and `offset`). If user provides values for both the methods, then RetrieveById takes preference.

1. Retrieve a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the **Map Outputs** in the **Checklist**. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
2. Retrieve a map between the output parameters and orchestration variables.

You have configured the QuickBooks Retrieve Objects activity.

**Parent topic:** [QuickBooks Activities](#)

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## RightNow SOAP API Activities

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- [Overview of the RightNow SOAP API connector](#)
- [Creating and editing a RightNow SOAP API endpoint](#)

RightNow SOAP API endpoints contain the connection information that Studio and the Integration Appliance use to connect to the RightNow CRM instance. You can create multiple endpoints that refer to separate instances.

- [Using the RightNow SOAP API Create Objects activity](#)  
Use the RightNow SOAP API Create Objects activity to create objects such as Account, Answer, Contact, Incident, Meta Answer, Opportunity, Organization, Purchased Product, Sales Product, Task and so on, in the RightNow server.
- [Using the RightNow SOAP API Get Objects activity](#)  
Use the RightNow SOAP API Get Objects activity to retrieve objects such as Account, Answer, Contact, Incident, Meta Answer, Opportunity, Organization, Purchased Product, Sales Product, Task, and so on from the RightNow server. In order to retrieve sub objects, we need to populate default values for the sub objects.
- [Using the RightNow SOAP API Update Objects activity](#)  
Use the RightNow SOAP API Update Objects activity to update objects such as Account, Answer, Contact, Incident, Meta Answer, Opportunity, Organization, Purchased Product, Sales Product, Task, and so on in the RightNow server.
- [Using the RightNow SOAP API Destroy Objects activity](#)  
Use the RightNow SOAP API Destroy Objects activity to delete objects such as Account, Answer, Contact, Incident, Meta Answer, Opportunity, Organization, Purchased Product, Sales Product, Task and so on, from the RightNow server. If you delete the primary object, all the corresponding sub objects related to the primary object will also be deleted.
- [Using the RightNow SOAP API Query Objects activity](#)  
Use the RightNow SOAP API Query Objects activity to query objects such as Account, Address, AnalyticsReport, Answer, Contact, Country, Email, Organization and so on, from the RightNow server. The query string that you specify for this operation must adhere to the RightNow Object Query Language (ROQL) standard. In order to retrieve sub objects, we need to populate default values for the sub objects.
- [Specifying retry parameters for RightNow SOAP API activities](#)  
Specifying the retry parameters is one of the tasks you must complete to configure a RightNow activity.

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## Overview of the RightNow SOAP API connector

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The RightNow SOAP API connector enables a two-way communication between Cast Iron and the RightNow server. This connector uses the RightNow SOAP APIs.

You can perform the following activities using the RightNow SOAP API connector:

- [Create Objects](#)
- [Get Objects](#)
- [Query Objects](#)
- [Update Objects](#)
- [Destroy Objects](#)

The versions of RightNow supported by the connector depend on the support life cycle of RightNow. The SOAP API version of RightNow currently supported is v1\_2.

**Parent topic:** [RightNow SOAP API Activities](#)

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## Creating and editing a RightNow SOAP API endpoint

---

RightNow SOAP API endpoints contain the connection information that Studio and the Integration Appliance use to connect to the RightNow CRM instance. You can create multiple endpoints that refer to separate instances.

## About this task

---

Use this task to create or edit a RightNow SOAP API endpoint. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

Note:

Any changes you make to the RightNow SOAP API endpoint, including configuration properties, affects all the orchestrations that use that endpoint, as the edits are global, not local.

To create and edit a RightNow SOAP API endpoint, complete the following steps:

## Procedure

---

1. Drag an activity from the RightNow SOAP API folder under the Activities tab, to the Orchestration window. The Summary panel is displayed.
2. Click Pick Endpoint from the Checklist. The Pick Endpoint panel is displayed.
3. Click one of the following buttons:
  - a. **Browse** - To select an existing endpoint from Project Explorer. The Project Explorer shows all the endpoints in the project available for the activity. When you select an endpoint, the endpoint properties are displayed in the Pick Endpoint panel.
  - b. **New** - To create a new endpoint. The Create Endpoint window opens.
  - c. **Edit** - To edit the existing endpoint. The Edit Endpoint window opens.
4. In the Create Endpoint window, complete the fields defined in the following table:

Table 1. Connection details

Field Name	Description
<b>Connection Details</b>	
URL	Specifies the URL of the RightNow instance.
User Name	Specifies the user name to connect to the RightNow instance.
Password	Specifies the password associated with the user name to connect to the RightNow instance.
<b>Proxy Connection Details</b>	
Proxy Host	Specifies the host name of the proxy server.
Proxy Port	Specifies the port number needed to connect to the proxy server.
Proxy User Name	Specifies the user name needed to connect to the proxy server.
Proxy Password	Specifies the password needed to connect to the proxy server.

5. When finished, click Test Connection to confirm that you can connect to the RightNow system.
6. Click OK.

## Results

---

You have created or edited a RightNow SOAP API endpoint.

**Parent topic:** [RightNow SOAP API Activities](#)

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## Using the RightNow SOAP API Create Objects activity

---

Use the RightNow SOAP API Create Objects activity to create objects such as Account, Answer, Contact, Incident, Meta Answer, Opportunity, Organization, Purchased Product, Sales Product, Task and so on, in the RightNow server.

## About this task

---

Use this task to create objects in the RightNow server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the RightNow SOAP API Create Objects activity, complete the following steps:

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the RightNow SOAP API folder contents.
2. Drag the Create Objects activity icon onto the orchestration. The RightNow SOAP API Create Objects Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant RightNow SOAP API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a RightNow SOAP API endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse RightNow SOAP API window is displayed.
11. In Browse RightNow SOAP API, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry parameters for RightNow SOAP API activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Create Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for an element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the RightNow SOAP API Create Objects activity.

**Parent topic:** [RightNow SOAP API Activities](#)

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## Using the RightNow SOAP API Get Objects activity

---

Use the RightNow SOAP API Get Objects activity to retrieve objects such as Account, Answer, Contact, Incident, Meta Answer, Opportunity, Organization, Purchased Product, Sales Product, Task, and so on from the RightNow server. In order to retrieve sub objects, we need to populate default values for the sub objects.

## About this task

---

Use this task to retrieve objects from the RightNow server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the RightNow SOAP API Get Objects activity, complete the following steps:

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the RightNow SOAP API folder contents.
2. Drag the Get Objects activity icon onto the orchestration. The RightNow SOAP API Get Objects Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant RightNow SOAP API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a RightNow SOAP API endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse RightNow SOAP API window is displayed.
11. In Browse RightNow SOAP API, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry parameters for RightNow SOAP API activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Get Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the RightNow SOAP API Get Objects activity.

**Parent topic:** [RightNow SOAP API Activities](#)

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## Using the RightNow SOAP API Update Objects activity

---

Use the RightNow SOAP API Update Objects activity to update objects such as Account, Answer, Contact, Incident, Meta Answer, Opportunity, Organization, Purchased Product, Sales Product, Task, and so on in the RightNow server.

## About this task

---

Use this task to update objects in the RightNow server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the RightNow SOAP API Update Objects activity, complete the following steps:

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the RightNow SOAP API folder contents.
2. Drag the Update Objects activity icon onto the orchestration. The RightNow SOAP API Update Objects activity Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant RightNow SOAP API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a RightNow SOAP API endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse RightNow SOAP API window is displayed.
11. In Browse RightNow SOAP API, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry parameters for RightNow SOAP API activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Update Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the RightNow SOAP API Update Objects activity.

**Parent topic:** [RightNow SOAP API Activities](#)

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## Using the RightNow SOAP API Destroy Objects activity

---

Use the RightNow SOAP API Destroy Objects activity to delete objects such as Account, Answer, Contact, Incident, Meta Answer, Opportunity, Organization, Purchased Product, Sales Product, Task and so on, from the RightNow server. If you delete the primary object, all the corresponding sub objects related to the primary object will also be deleted.

## About this task

---

Use this task to delete objects in the RightNow server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the RightNow SOAP API Destroy Objects activity, complete the following steps:

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the RightNow SOAP API folder contents.
2. Drag the Destroy Objects activity icon onto the orchestration. The RightNow SOAP API Destroy Objects activity checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant RightNow SOAP API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a RightNow SOAP API endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse RightNow SOAP API window is displayed.
11. In Browse RightNow SOAP API, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry parameters for RightNow SOAP API activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Destroy Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the RightNow SOAP API Destroy Objects activity.

**Parent topic:** [RightNow SOAP API Activities](#)

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## Using the RightNow SOAP API Query Objects activity

---

Use the RightNow SOAP API Query Objects activity to query objects such as Account, Address, AnalyticsReport, Answer, Contact, Country, Email, Organization and so on, from the RightNow server. The query string that you specify for this operation must adhere to the RightNow Object Query Language (ROQL) standard. In order to retrieve sub objects, we need to populate default values for the sub objects.

### About this task

---

Use this task to query objects from the RightNow server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the RightNow SOAP API Query Objects activity, complete the following steps:

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the RightNow SOAP API folder contents.
2. Drag the Query Objects activity icon onto the orchestration. The RightNow SOAP API Query Objects activityChecklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant RightNow SOAP API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a RightNow SOAP API endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse RightNow SOAP API window is displayed.
11. In Browse RightNow SOAP API, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry parameters for RightNow SOAP API activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Query Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the RightNow SOAP API Query Objects activity.

**Parent topic:** [RightNow SOAP API Activities](#)

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## Specifying retry parameters for RightNow SOAP API activities

---

Specifying the retry parameters is one of the tasks you must complete to configure a RightNow activity.

### About this task

---

The RightNow SOAP API connects to the RightNow server to execute the activities. If a connection is lost or timed out, the connector automatically establishes a new connection based on the parameters described in Table 1. The connector does not count the initial attempt to reacquiring the session as a retry attempt. The connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails.

For more information about the configuration tasks in the Checklist, see the help topic for the specific RightNow SOAP API activity.

To specify the retry parameters, complete the following steps:

## Procedure

---

1. In the Checklist, select Retry. The Retry panel is displayed.
2. Configure the retry options for connecting to a RightNow application.

The following table describes the retry options for connecting to a RightNow application:

Table 1. Retry options

Retry Fields	Description
Wait __ seconds between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the RightNow application. By default, this parameter is set to 30 seconds.
Try to connect __ times before failing.	Specifies the maximum number of times that the Integration Appliance attempts to establish a connection to the RightNow application before issuing an error and stopping the processing of the current orchestration job. By default this parameter is set to 5 attempts.
Activity Timeout	
Time out after __ seconds when the endpoint does not respond to a request.	Specifies the number of seconds the Integration Appliance waits before timing out, when the endpoint does not respond to a request. The default is 300 seconds.

## Results

---

You have configured the retry parameters for the RightNow SOAP API activities.

**Parent topic:** [RightNow SOAP API Activities](#)

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## Salesforce.com activities

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- [Creating or editing a Salesforce.com endpoint](#)

Salesforce.com endpoints provide information that Studio and the Integration Appliance use to connect to a Salesforce.com instance.

- [Configuring Salesforce.com activities](#)

Selecting fields from the Salesforce.com object to map is one of the tasks you must complete to configure a Salesforce.com activity. For more information about the configuration tasks in the Checklist, see the help topic for the specific Salesforce.com activity.

- [Migrating Salesforce.com projects](#)

- [Setting Salesforce.com configuration properties](#)

Any changes you make to configuration properties affects all orchestrations that use that endpoint. The edits are global, not local.

- [Specifying the Retry and Time Out parameters for Salesforce.com activities](#)

Specifying the Retry and Time Out parameters is one of the tasks you must complete to configure a Salesforce.com activity. The Salesforce.com Connector uses an HTTP 1.1 persistent connection over SSL to make all connections to the Salesforce.com server. The Salesforce.com connector compresses all data for requests and responses using the gzip format.

- [Understanding and setting polling preferences for the Salesforce.com connector](#)

- [Convert Lead activity](#)

Use this activity to convert leads into accounts, contacts, or opportunities in Salesforce.com. While the Salesforce.com API limits the number of objects that it can convert in a single call to 100 objects, the Cast Iron® Salesforce.com connector does not have such a limit. You can use the **Convert Lead** activity to convert an unlimited number of objects.

- [Set password activity](#)

Use this activity to change the password of a user or SelfServiceUser to a value that you specify.

- [Reset password activity](#)

Use this activity to reset the password of the user to a system-generated value.

- [Send email activity](#)  
Use this activity to send single or multiple emails. The emails include all standard email attributes such as the email address, subject line, and carbon copies.
- [Create Objects activity](#)  
Use this activity to create one or more Salesforce.com objects. In the Activities tab, open the Salesforce.com directory to find the Create Objects activity.
- [Delete Objects activity](#)  
Use this activity to delete one or more objects in Salesforce.com. While the Salesforce.com API limits the number of objects that it can delete in a single call to 200 objects, the Cast Iron Salesforce.com connector does not have such a limit. You can use the **Delete Objects** activity to delete an unlimited number of objects.
- [Get Deleted Objects](#)  
This activity retrieves the list of individual objects that have been deleted within the specified time-span for the specified object.
- [Get Updated Objects](#)
- [Get User Information activity](#)  
Use this activity to get user information from the Salesforce.com server. In the Activities tab, open the Salesforce.com directory to find the Get User Information activity.
- [Get Server Timestamp activity](#)  
Use this activity to get the current time from the Salesforce.com server. In the Activities tab, open the Salesforce.com directory to find the Get Server Timestamp activity.
- [Merge Objects Activity](#)  
Use this activity to merge Salesforce.com objects into a single record.
- [Poll Deleted Objects activity](#)  
This activity polls the Salesforce.com Server for objects that have been recently deleted and returns IDs to the Integration Appliance.
- [Poll Updated Objects activity](#)  
This activity polls the Salesforce.com Server for objects that have been recently created or updated and returns all the object fields that you selected in the configuration panel to the Integration Appliance. In Studio, configure the polling interval for the activity.
- [Query Objects activity](#)  
Use the SForce Object Query Language (SOQL) to run a query on one or more Salesforce.com object types from this activity and return a results set. The Query Objects activity automatically runs a query or queryAll call, followed by continuous queryMore calls for all children and objects returned from Salesforce.com.
- [Configuring the Query Objects activity](#)  
You must create a SForce Object Search Language (SOSL) query to configure the **Search Objects** activity. The following sections discuss the steps to configure the **Search Objects** activity, create an SOSL query, and provide SOSL syntax rules for IBM® Cast Iron.
- [Retrieve Objects activity](#)  
Use this activity to retrieve one or more Salesforce.com objects of a specified type. While the Salesforce.com API limits the number of objects that it can retrieve in a single call to 2,000 objects, the Cast Iron Salesforce.com connector does not have such a limit. You can use the **Retrieve Objects** activity to retrieve an unlimited number of objects.
- [Search Objects activity](#)
- [Undelete Objects activity](#)
- [Configuring the Search Objects activity](#)  
You must create an SForce Object Search Language (SOSL) query to configure the **Search Objects** activity.
- [Update Objects activity](#)  
Use this activity to update existing objects in Salesforce.com.
- [Upsert Objects activity](#)  
Use this activity to update existing objects or create new objects in Salesforce.com.

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## [Creating or editing a Salesforce.com endpoint](#)

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## About this task

---

Any changes you make to the endpoint, including configuration properties, affects all orchestrations that use that endpoint as the edits are global, not local.

## Procedure

---

1. Drag an activity from the Salesforce.com folder of the Activities tab onto the orchestration.

The Summary panel is displayed along with a Checklist which lists the tasks that you must perform to configure the activity.

2. Click Pick Endpoint task from the Checklist. The Pick Endpoint panel opens.

3. Click one of the following options:

- o Browse...: To select an existing endpoint from the Project Explorer. The Project Explorer shows all the endpoints in the project available for the activity. When you select an endpoint, the endpoint properties are displayed in the Pick Endpoint panel. To edit the endpoint properties, click Edit. Go to step 5.
- o New: To create a new endpoint. The Create Endpoint window opens. Go to step 5.
- o Edit: To edit an existing endpoint. The Edit Endpoint window opens. Go to step 5.

Note: Editing an endpoint affects all orchestrations that use that endpoint in the project as the edits are global, not local.

4. In the endpoint window, specify a user name and a password to access a Salesforce.com instance.

- a. Type a user name or click the icon to the right of the User Name field to select the sfdc\_login configuration property.
- b. Type a password or click the icon to the right of the Password field to select the sfdc\_password configuration property.

5. Choose a login option:

Login Options	Description
Login normally	By default, Login is selected. At run time, the Integration Appliance accesses a production instance of Salesforce.com.
Login to Salesforce.com Sandbox	At run time, the Integration Appliance accesses a copy of the production system. You can run tests in the Sandbox without affecting production data.
Login to specified Partner WSDL Login URL	At run time, the Integration Appliance accesses the URL you specify in the Login URL field.
Login URL	Only required when you choose the Login to specified Partner WSDL Login URL option.

6. Specify the Connection Timeout parameter. By default, the Integration Appliance times out if it is unable to connect to the Salesforce.com endpoint after 300 seconds.

7. To connect through a proxy server, complete the fields described in the following table:

Option	Description
Field name	Description
Connect via a Proxy Server	Select this check box to enable the fields to connect through a proxy server.
Authentication	Allows you to select the type of authentication that the Integration Appliance uses when connecting to a proxy server. From the list, select one of the following authentication options: <ul style="list-style-type: none"> <li>o Basic - Sends the user name and password you specify unencrypted to the server. This authentication schema is the least secure.</li> <li>o NTLM - Requires an instance of NTCredentials to be available for the domain name of the server. This authentication is the most secure authentication option. When you choose the NTLM authentication option, the Integration Appliance authenticates a connection and not a request; therefore, the Integration Appliance authenticates every time a new connection is made. The connection must remain open during the authentication process. You cannot use NTLM to authenticate with both a proxy and server.</li> </ul>

Option	Description
Real m/D omain	If you select the <b>Basic</b> authentication option, specify a realm. If you select the <b>NTLM</b> authentication option, specify a domain.
Host Name	Specify the host name of the proxy server.
Port	Specify the port number needed to connect to the proxy server.
User Name	Specify the user name needed to connect to the proxy server.
Password	Specify the password needed to connect to the proxy server.

8. Click Test Connection to confirm that the parameters you specified allow the project to access a Salesforce.com instance.

Note: When you configure a Salesforce.com endpoint to use configuration properties, verify that the configuration properties have valid values. If the configuration property value is invalid or does not exist, the connection test fails.

**Parent topic:** [Salesforce.com activities](#)

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## Configuring Salesforce.com activities

Selecting fields from the Salesforce.com object to map is one of the tasks you must complete to configure a Salesforce.com activity. For more information about the configuration tasks in the Checklist, see the help topic for the specific Salesforce.com activity.

### About this task

For some of the fields in the endpoint, you can [create configuration properties](#) to supply the values for these fields. An icon is displayed when you click in a field that supports a configuration property and a configuration property of the same type has already been configured for the project.

### Procedure

1. In the Checklist, select Configure. The Configure panel opens.
2. Click Browse... to select a Salesforce.com object type. The Choose a Salesforce.com Object window shows all the Salesforce.com objects that are associated with the Studio activity.
3. Select an object type from the list.  
Note: Custom object types end with a double underscore c ( \_\_c ). For example: *CustomerPriority\_\_c*

Enter a character or string in the Search for an Object Type field and Studio filters the object types and only shows the object types that match the filter criteria. (Optional) Click the refresh icon to retrieve the latest Salesforce.com object types.

4. Click OK.

All the fields associated with the object type you selected are displayed.

5. In the Object Field Preferences section, select the fields to map.

By default, all fields are selected. You can choose to clear any field that you do not want to show in the map. A global checkbox allows you to select and clear all fields at once.

Note: The Id field is required for many activities. For these activities, the Id field is disabled and you cannot clear this field.

**Parent topic:** [Salesforce.com activities](#)

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## Migrating Salesforce.com projects

---

### About this task

In Studio version 3.6.2, the Salesforce.com connector version 3.0 is built-in and does not require additional installation as the previous version required.

Salesforce.com Connector Version	Studio Version	Installation Type
3.0X	3.6.2 and higher	built-in (no additional installation)
2.0X	3.5 and higher	add-on (separate installation)
1.0X	3.5 and higher	add-on (separate installation)

Studio does not automatically migrate projects containing Salesforce.com connector version 1.x or Salesforce.com connector version 2.x. However, the latest version of Studio can support any manually migrated projects that contain orchestrations using add-on versions of the connector. Therefore, it is possible to use both the built-in and add-on versions of the Salesforce.com connector in the same orchestration.

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**Parent topic:** [Salesforce.com activities](#)

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## Setting Salesforce.com configuration properties

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Any changes you make to configuration properties affects all orchestrations that use that endpoint. The edits are global, not local.

### Procedure

1. Select Project > Configuration Properties. The Configuration Properties window opens.
2. Click the Value field for the sfdc\_password property and type a valid password.
3. Click the Value field for the sfdc\_login property and type a valid Salesforce.com login.
4. Click OK.

**Parent topic:** [Salesforce.com activities](#)

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## Specifying the Retry and Time Out parameters for Salesforce.com activities

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Specifying the Retry and Time Out parameters is one of the tasks you must complete to configure a Salesforce.com activity. The Salesforce.com Connector uses an HTTP 1.1 persistent connection over SSL to make all connections to the Salesforce.com server. The Salesforce.com connector compresses all data for requests and responses using the gzip format.

### About this task

---

The Salesforce.com connector uses a single login session for all connections to a Salesforce.com endpoint. If a session expires, the connector automatically establishes a new session. The Salesforce.com connector does not count the initial attempt to reacquire the session as a retry attempt. The Salesforce.com connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails.

For more information about the configuration tasks in the **Checklist**, see the help topic for the specific Salesforce.com activity.

### Procedure

---

1. In the Checklist, select Retry. The Retry panel open.
2. Configure the retry options for connecting to a Salesforce.com instance.

The following table describes the retry options for connecting to a Salesforce.com instance:

Retry Fields	Description
Wait __ second(s) between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the Salesforce.com instance.  By default, this parameter is set to 30 seconds.
Try to connect __ times before failing. Â	Specifies the maximum number of times that the Integration Appliance attempts to establish a connection to the Salesforce.com instance before issuing an error and stopping the processing of the current orchestration job.  By default this parameter is set to 5 attempts.
Activity Timeout Field	Description
Time out after __ seconds when the Endpoint does not respond to a request.	Specifies the number of seconds before a time out occurs between the activity making a request on an endpoint and the time it takes the endpoint to respond.  By default this parameter is set to 300 seconds.

**Parent topic:** [Salesforce.com activities](#)

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# Understanding and setting polling preferences for the Salesforce.com connector

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## About this task

---

The Salesforce.com connector contains two activities that poll the Salesforce.com server for changes:

- **Poll Deleted Objects** activity
- **Poll Updated Objects** activity

These activities have the following startup behavior:

- For an orchestration that has never been deployed, the baseline time stamp is established when the activity is activated for the first time. The activity uses the baseline time stamp as the start time to poll for changes after the poll interval elapses. After the poll completes, the activity stores the last poll time.
- For a previously deployed orchestration, the activity uses the last poll time and the current time to poll for changes after the poll interval elapses.
- Salesforce.com requires at least 60 seconds between each poll. If less than 60 seconds have transpired, then the activity ignores the current polling interval until the next polling interval elapses.

## Procedure

---

1. In the Checklist, select Polling.

The Polling Preferences panel opens.

2. Set the polling preferences for the following parameters:

Polling Preference	Description
Poll for changes every <i>	Specifies the polling interval for which the Integration Appliance polls the Salesforce.com Server for objects that have been created or updated since the last poll.  Where <i> is the polling interval. The interval can be specified in minutes, hours, or days  By default, the Integration Appliance polls the Salesforce.com Server every 5 minutes.
Batch up to <n> objects per orchestration	Specifies the maximum number of object records per orchestration job, during a polling interval. By default, the Integration Appliance processes 1 record per orchestration job. Use this preference to tune the performance of the Integration Appliance.  Where <n> is the number of objects in a batch.

**Parent topic:** [Salesforce.com activities](#)

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## Convert Lead activity

---

Use this activity to convert leads into accounts, contacts, or opportunities in Salesforce.com. While the Salesforce.com API limits the number of objects that it can convert in a single call to 100 objects, the Cast Iron® Salesforce.com connector does not have such a limit. You can use the **Convert Lead** activity to convert an unlimited number of objects.

## Procedure

---

1. In the Activities tab, open the Salesforce.com directory to find the Convert Lead activity.

2. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. Select a Salesforce.com endpoint.

For instructions on creating or editing a Salesforce.com endpoint, see [Creating or Editing a Salesforce.com Endpoint](#).

4. Specify the Retry and Time out parameters for the activity.

5. Map the input of the activity.

6. Map the output of the activity.

- [Map the input of the Convert Lead activity](#)
- [Map the output of the Convert Lead activity](#)

**Parent topic:** [Salesforce.com activities](#)

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## Map the input of the Convert Lead activity

---

### Procedure

1. In the Checklist, select Map Inputs.

The convertLead element displays in the To Activity pane. The parameters displayed correspond to the structure of the input to the Salesforce.com convertLead operation.

2. (Optional) Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:

- CallOptions
- connection
- sessionInfo

3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Convert Lead activity](#)

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## Map the output of the Convert Lead activity

---

### Procedure

1. In the Checklist, select Map Outputs.

The convertLeadResponse element is displayed in the From Activity panel. The parameters displayed correspond to the convertLeadResponse structure, which is returned by the convertLead operation.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Convert Lead activity](#)

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## Set password activity

---

Use this activity to change the password of a user or SelfServiceUser to a value that you specify.

Note: You must have the administrative permission to change the password for the users.

### To use the Set Password activity:

1. In the Activities tab, open the Salesforce.com directory to find the Set Password activity.
2. Drag the Set Password activity onto the orchestration.

The Summary and Checklist for the activity are displayed beneath the orchestration.

3. Select a Salesforce.com endpoint.

For instructions on creating or editing a Salesforce.com endpoint, see [Creating or editing a Salesforce.com endpoint](#).

Note: No additional configuration is required for this activity in the Configure section.

4. Specify the Retry and Activity Timeout parameters for the activity.
5. Map the inputs of the activity.
6. Map the outputs of the activity.

### To map the input of the Set Password activity:

1. In the Checklist, select Map Inputs.

The userId and password parameters are displayed in the To Activity pane.

2. (Optional) Right-click the default node and choose Show Optional Parameters, to display these optional input parameters for this activity:
  - o CallOptions
  - o connection
  - o sessionInfo

3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

## To map the output of the Set Password activity:

---

1. In the Checklist, select Map Outputs.

The sessionInfo element is displayed in the From Activity pane.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Salesforce.com activities](#)

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## Reset password activity

---

Use this activity to reset the password of the user to a system-generated value.

Note: You must have the administrative permission to reset the password for the users.

## To use the Reset Password activity:

---

1. In the Activities tab, open the Salesforce.com directory to find the Reset Password activity.
2. Drag the Reset Password activity onto the orchestration.

The Summary and Checklist for the activity are displayed beneath the orchestration.

3. Select a Salesforce.com endpoint.

For instructions on creating or editing a Salesforce.com endpoint, see [Creating or editing a Salesforce.com endpoint](#).

Note: No additional configuration is required for this activity in the Configure section.

4. Specify the Retry and Activity Timeout parameters for the activity.
5. Map the inputs of the activity.
6. Map the outputs of the activity.

## To map the input of the Reset Password activity:

---

1. In the Checklist, select Map Inputs.

The userId parameter is displayed in the To Activity pane.

2. (Optional) Right-click the default node and choose Show Optional Parameters, to display these optional input parameters for this activity:
  - o CallOptions
  - o EmailHeader
  - o connection
  - o sessionInfo

3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

## To map the output of the Reset Password activity:

---

1. In the Checklist, select Map Outputs.

The password and sessionInfo elements are displayed in the From Activity pane.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Salesforce.com activities](#)

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## Send email activity

---

Use this activity to send single or multiple emails. The emails include all standard email attributes such as the email address, subject line, and carbon copies.

### To use the email activity:

---

1. In the Activities tab, open the Salesforce.com directory to find the Send Email activity.
2. Drag the Send Email activity onto the orchestration.

The Summary and Checklist for the activity are displayed beneath the orchestration.

3. Select a Salesforce.com endpoint.

For instructions on creating or editing a Salesforce.com endpoint, see [Creating or editing a Salesforce.com endpoint](#).

4. In the Configure section, select the Send Mass Emails check box if you want to send multiple emails.
5. Specify the Retry and Activity Timeout parameters for the activity.
6. Map the inputs of the activity.
7. Map the outputs of the activity.

### To map the input of the Send Email activity:

---

1. In the Checklist, select Map Inputs.

The emails parameter is displayed in the To Activity pane.

2. (Optional) Right-click the default node and choose Show Optional Parameters, to display these optional input parameters for this activity:
  - o connection
  - o sessionInfo

3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

## To map the output of the Send Email activity:

---

1. In the Checklist, select Map Outputs.

The results and sessionInfo elements are displayed in the From Activity pane.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Salesforce.com activities](#)

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## Create Objects activity

---

Use this activity to create one or more Salesforce.com objects. In the Activities tab, open the Salesforce.com directory to find the Create Objects activity.

### Procedure

---

1. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

2. Select a Salesforce.com endpoint.

For instructions on creating or editing a Salesforce.com endpoint, see [Creating or editing a Salesforce.com endpoint](#).

3. Configure the activity, by choosing a Salesforce.com object type and object field preferences.

4. Specify the Retry and Time out parameters for the activity.

5. Map the input of the activity.

6. Map the output of the activity.

- [Map the input of the Create Objects activity](#)
- [Map the output of the Create Object activity](#)

**Parent topic:** [Salesforce.com activities](#)

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## Map the input of the Create Objects activity

---

### Procedure

---

1. In the Checklist, select Map Inputs.

The Objects element is displayed in the To Activity panel. The parameters displayed correspond to the structure of the input to the Salesforce.com Objects operation.

2. (Optional) Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:

- o AssignmentRuleHeader
- o MruHeader
- o EmailHeader
- o CallOptions
- o connection
- o sessionInfo

3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

*Optional* and *nillable* field elements have the following behavior:

- o The Integration Appliance does not update an optional field, when the Salesforce.com server does not provide a value for the field.
  - o If you set the xsi:nil attribute to true on a nillable field, the Integration Appliance sets the field to null during an update.
- Note: Setting a field to an empty string does not set a field to null.

**Parent topic:** [Create Objects activity](#)

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## Map the output of the Create Object activity

---

### Procedure

1. In the Checklist, select Map Outputs.

The saveResults element is displayed in the From Activity panel. The parameters displayed correspond to the saveResults structure, which is returned by the create activity.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Create Objects activity](#)

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## Delete Objects activity

---

Use this activity to delete one or more objects in Salesforce.com. While the Salesforce.com API limits the number of objects that it can delete in a single call to 200 objects, the Cast Iron® Salesforce.com connector does not have such a limit. You can use the **Delete Objects** activity to delete an unlimited number of objects.

### Procedure

---

1. In the Activities tab, open the Salesforce.com directory to find the Delete Objects activity.
2. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. Select a Salesforce.com endpoint.

For instructions on creating or editing a Salesforce.com endpoint, see [Creating or editing a Salesforce.com endpoint](#).

4. Specify the Retry and Time out parameters for the activity.
5. Map the input of the activity.
6. Map the output of the activity.

- [Map the input of the Delete Objects activity](#)
- [Map the output of the Delete Object activity](#)

**Parent topic:** [Salesforce.com activities](#)

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## Map the input of the Delete Objects activity

---

### Procedure

---

1. In the Checklist, select Map Inputs.

The Ids element is displayed in the To Activity panel.

2. (Optional) Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:

- UserTerritoryDeleteHeader
- CallOptions
- connection
- sessionInfo

3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Delete Objects activity](#)

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## Map the output of the Delete Object activity

---

### Procedure

1. In the Checklist, select Map Outputs.

The deleteResults element is displayed in the From Activity panel.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Delete Objects activity](#)

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## Get Deleted Objects

---

This activity retrieves the list of individual objects that have been deleted within the specified time-span for the specified object.

### Procedure

1. In the Activities tab, open the Salesforce.com directory to find the Get Deleted Objects activity.
2. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. Select a Salesforce.com endpoint.

For instructions on creating or editing a Salesforce.com endpoint, see [Creating or editing a Salesforce.com endpoint](#).

4. Specify the Retry and Time out parameters for the activity.
5. Map the input of the activity.
6. Map the output of the activity.
  - [Map the input of the Get Deleted Objects activity](#)
  - [Map the output of the Get Deleted Object activity](#)

**Parent topic:** [Salesforce.com activities](#)

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## Map the input of the Get Deleted Objects activity

---

### Procedure

1. In the Checklist, select Map Inputs.

The startTime element is displayed in the To Activity panel.

2. (Optional) Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:

- o endTime
- o CallOptions
- o connection
- o sessionInfo

3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Get Deleted Objects](#)

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## Map the output of the Get Deleted Object activity

---

### Procedure

1. In the Checklist, select Map Outputs.

The deleteResults element is displayed in the From Activity panel.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Get Deleted Objects](#)

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## Get Updated Objects

---

### Procedure

1. In the Activities tab, open the Salesforce.com directory to find the Get Updated Objects activity.
2. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. Select a Salesforce.com endpoint.

For instructions on creating or editing a Salesforce.com endpoint, see [Creating or editing a Salesforce.com endpoint](#).

4. Configure the activity, by choosing a Salesforce.com object type and object field preferences.

You can only select object types and fields that the Integration Appliance can update. The input map contains the object type with elements that correspond to the fields you select during this configuration step.

Note: The Integration Appliance cannot create auto-number fields.

5. Specify the Retry and Time out parameters for the activity.

6. Map the input of the activity.

The input map consists of an object's input parameter. This parameter consists of a single root element that has a single repeating element, named after the object type you selected, containing all the fields you selected in the Object Field Preferences table.

7. Map the output of the activity.

- [Map the input of the Get Updated Objects activity](#)
- [Map the output of the Get Updated Object activity](#)

**Parent topic:** [Salesforce.com activities](#)

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## Map the input of the Get Updated Objects activity

---

### Procedure

1. In the Checklist, select Map Inputs.

The startTime element is displayed in the To Activity panel.

2. (Optional) Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:
  - o endDateTime
  - o CallOptions
  - o connection
  - o sessionInfo

3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

*Optional* and *nillable* field elements have the following behavior:

- The Integration Appliance does not update an optional field, when the Salesforce.com server does not provide a value for the field.
- If you set the xsi:nil attribute to true on a nillable field, the Integration Appliance sets the field to null during an update.  
Note: Setting a field to an empty string does not set a field to null.

**Parent topic:** [Get Updated Objects](#)

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## Map the output of the Get Updated Object activity

---

### Procedure

1. In the Checklist, select Map Outputs.

The saveResults element is displayed in the From Activity panel.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Get Updated Objects](#)

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## Get User Information activity

---

Use this activity to get user information from the Salesforce.com server. In the Activities tab, open the Salesforce.com directory to find the Get User Information activity.

### Procedure

1. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

2. Select a Salesforce.com endpoint.

For instructions on creating or editing a Salesforce.com endpoint, see [Creating or editing a Salesforce.com endpoint](#).

3. Specify the Retry and Time out parameters for the activity.
4. Map the output of the activity.

- [Map the output of the Get User Information activity](#)

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## Map the output of the Get User Information activity

---

### Procedure

1. In the Checklist, select Map Outputs.

The GetUserInformationResult element contains the Salesforce.com user information and opens in the From Activity panel.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Get User Information activity](#)

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## Get Server Timestamp activity

---

Use this activity to get the current time from the Salesforce.com server. In the Activities tab, open the Salesforce.com directory to find the Get Server Timestamp activity.

### Procedure

1. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

2. Select a Salesforce.com endpoint.

For instructions on creating or editing a Salesforce.com endpoint, see [Creating or editing a Salesforce.com endpoint](#).

3. Specify the Retry and Time out parameters for the activity.
4. Map the output of the activity.

- [Map the output of the Get Server Timestamp activity](#)

**Parent topic:** [Salesforce.com activities](#)

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## Map the output of the Get Server Timestamp activity

---

### Procedure

1. In the Checklist, select Map Outputs.

The serverTimestamp element contains the Salesforce.com user information and opens in the From Activity panel.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Get Server Timestamp activity](#)

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## Merge Objects Activity

---

Use this activity to merge Salesforce.com objects into a single record.

### About this task

You can merge two or more of the following Salesforce.com objects into a single record:

- Account
- Contact
- Leads

After the activity merges the objects, it deletes the pre-merge records and re-parents any duplicates.

While the Salesforce.com API limits the number of requests that it can merge in a single call to 200, the Cast Iron® Salesforce.com connector does not have such a limit. You can use the **Merge Objects** activity to process an unlimited number of merge requests.

### Procedure

1. In the Activities tab, open the Salesforce.com directory to find the Merge Objects activity.
2. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. Select a Salesforce.com endpoint.

For instructions on creating or editing a Salesforce.com endpoint, see [Creating or editing a Salesforce.com endpoint](#).

4. Configure the activity, by choosing a Salesforce.com object type and object field preferences.

You can only select Account, Contact, and Lead object types and fields that the Appliance can update. Fields such as auto-number fields might not be available to select.

5. Specify the Retry and Time out parameters for the activity.
6. Map the input of the activity.
7. Map the output of the activity.
  - [Map the input of the Merge Objects activity](#)
  - [Map the output of the Merge Object activity](#)

**Parent topic:** [Salesforce.com activities](#)

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## Map the input of the Merge Objects activity

---

### Procedure

1. In the Checklist, select Map Inputs.

The Merge element is displayed in the To Activity panel.

2. (Optional) Right-click the default node and choose Show Optional Parameters, to display these optional input parameters for this activity:
  - AssignmentRuleHeader
  - MruHeader
  - EmailHeader
  - CallOptions
  - connection
  - sessionInfo
3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

*Optional* and *nillable* field elements have the following behavior:

- The Integration Appliance does not update an optional field, when the Salesforce.com server does not provide a value for the field.
- If you set the xsi:nil attribute to true on a nillable field, the Integration Appliance sets the field to null during an update.  
Note: Setting a field to an empty string does not set a field to null.

**Parent topic:** [Merge Objects Activity](#)

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# Map the output of the Merge Object activity

---

## Procedure

---

1. In the Checklist, select Map Outputs.

The results element is displayed in the From Activity panel. The parameters displayed correspond to the structure of the Salesforce.com MergeResults schema.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Merge Objects Activity](#)

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# Poll Deleted Objects activity

---

This activity polls the Salesforce.com Server for objects that have been recently deleted and returns IDs to the Integration Appliance.

## Procedure

---

1. In the Activities tab, open the Salesforce.com directory to find the Poll Deleted Objects activity.
2. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. Select a Salesforce.com endpoint.

For instructions on creating or editing a Salesforce.com endpoint, see [Creating or editing a Salesforce.com endpoint](#).

4. Configure the activity by choosing a Salesforce.com object type and object field preferences.
5. Specify the Polling preferences for the activity.
6. Specify the Retry and Time out parameters for the activity.
7. Map the output of the activity.

- [Map the output of the Poll Deleted Object activity](#)

**Parent topic:** [Salesforce.com activities](#)

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# Map the output of the Poll Deleted Object activity

---

## Procedure

---

1. In the Checklist, select Map Outputs.

The objects element is displayed in the From Activity panel.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

The output map can have *nillable* field elements have the following behavior:

- o If the field being retrieved is null, the Integration Appliance sets the xsi:nil attribute to true in the result.
- o If the input ID is not valid or does not represent the object type you specified, then for the entire object element the Integration Appliance sets xsi:nil to true for that element's position in the result set.

**Parent topic:** [Poll Deleted Objects activity](#)

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## Poll Updated Objects activity

---

This activity polls the Salesforce.com Server for objects that have been recently created or updated and returns all the object fields that you selected in the configuration panel to the Integration Appliance. In Studio, configure the polling interval for the activity.

## Procedure

---

1. In the Activities tab, open the Salesforce.com directory to find the Poll Updated Objects activity.
2. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. Select a Salesforce.com endpoint.

For instructions on creating or editing a Salesforce.com endpoint, see [Creating or editing a Salesforce.com endpoint](#).

4. Configure the activity by choosing a Salesforce.com object type and object field preferences.
5. Specify the Polling preferences for the activity.
6. Specify the Retry and Time out parameters for the activity.
7. Map the output of the activity.

- [Map the output of the Poll Updated Object activity](#)

**Parent topic:** [Salesforce.com activities](#)

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# Map the output of the Poll Updated Object activity

---

## Procedure

---

1. In the Checklist, select Map Outputs.

The objects element is displayed in the From Activity panel.

2. Click Select Outputs... and select the output variable(s) for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

The output map can have *nillable* field elements have the following behavior:

- o If the field being retrieved is null, the Integration Appliance sets the xsi:nil attribute to true in the result. Â

**Parent topic:** [Poll Updated Objects activity](#)

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# Query Objects activity

---

Use the Sforce Object Query Language (SOQL) to run a query on one or more Salesforce.com object types from this activity and return a results set. The Query Objects activity automatically runs a query or queryAll call, followed by continuous queryMore calls for all children and objects returned from Salesforce.com.

Note: Running the Query Objects activity can result in a cursor being opened by Salesforce.com to track the query results. If the activity reaches the cursor limit that Salesforce.com allots to each user or if the cursor expires, the Integration Appliance tries the activity again.

## Using the Query Objects activity

---

1. In the Activities tab, open the Salesforce.com directory to find the Query Objects activity.
2. Add the activity to your orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. Select a Salesforce.com endpoint.

For instructions on creating or editing a Salesforce.com endpoint, see [Creating or editing a Salesforce.com endpoint](#).

4. Configure the activity, by specifying a query and setting query options.
5. Specify the Retry and Time out parameters for the activity.
6. Map the input of the activity.
7. Map the output of the activity.

## Map the input of the Query Objects activity

---

1. In the Checklist, select Map Inputs.

The parameters element is displayed in the To Activity panel. The parameters element has a child element for each parameter you specified in the SOQL query. The context for the parameter in the query determines the parameter type. If you did not specify any parameters, then no child elements are displayed under the parameters element.

2. Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:
  - o MruHeader
  - o CallOptions
  - o connection
  - o sessionInfo
3. Click Select Inputs... and select the input variable or variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variable or variables.

For mapping instructions, see [Creating a Map](#).

## Map the output of the Query Objects activity

---

1. In the Checklist, select Map Outputs.

The objects element is displayed in the From Activity panel. The result parameter has a single element named objects with a single repeating element named after the driving object of the query. The driving object is the first object named in the FROM clause of the query. For example, in the following SOQL statement Account is the driving object:

Select Name from Account, Account.Contacts

The driving object has child elements that correspond to the fields or relationships listed in the SELECT clause of a query.

Â The schema is defined as follows:

- o For fields, the field type matches the SOAP type of the field. The field type is nillable if the SOAP type is nillable.
- o For relationships for parent elements, the element name is the name of the parent. If there is no parent when the activity runs the query, then the element is absent. The fields or relationships of the parent is displayed immediately underneath the relationship element.
- o For relationships for child elements, the element name is the name of the child. The relationship element has a single repeating element named after the object type of the child object. The fields and relationship of the child is displayed underneath the object type element. If there are no children when the activity runs the query, then the element is absent.
- o If you did not select any fields or relationships, but instead request the count() in the SELECT clause, the entire object type element is replaced with an element named count of type unsignedInt.

Â

2. Click Select Outputs... and select the output variable or variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variable or variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Salesforce.com activities](#)

**Parent topic:** [ServiceMax activities](#)

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## Configuring the Query Objects activity

---

You must create a SForce Object Search Language (SOSL) query to configure the **Search Objects** activity. The following sections discuss the steps to configure the **Search Objects** activity, create an SOSL query, and provide SOSL syntax rules for IBMÂ® Cast IronÂ®.

### Procedure

---

1. In the Checklist, select Configure.

The Specify Query window opens.

2. Create an SOSL query in the Specify Query window.

3. (Optional) You can specify dynamic parameters in the search clause of the SOSL statement. You can then map these parameters dynamically as the input parameters for the activity, which allows the activity to dynamically control the query based upon the input to the orchestration. Use a (\$) dollar sign to denote a parameter and follow it with the parameter name.

4. Click the Validate icon to validate the query.

If the query is invalid, the Validation Feedback icon displays in the lower left corner of the Specify Query window. For invalid queries:

- a. Click the Validation Feedback icon in the lower left corner of the Specify Query window for a list of validation errors.

- b. Use the Refresh icon to refresh meta data and revalidate the SOSL statement.

5. In the Checklist, select Query to configure specific query options.

The Query Options pane opens.

6. Select Include deleted items in query (execute a queryAll operation), to query for deleted records in addition to existing records. If you do not select this option, the Integration Appliance only queries existing records.

7. Specify a Query batch size between 200-2,000 queries to help tune the performance of the Integration Appliance.

The option determines the batch size to use in the QueryOptions SOAP header for all query calls and does not affect the number of results returned by the activity. By default, this option is set to 500 queries.

**Parent topic:** [Salesforce.com activities](#)

## Creating SOSL Queries

---

When creating a SOQL query, you can use dynamic parameters in the WHERE clause of the SOQL statement. Studio can then dynamically map these parameters as the input parameters for the activity. This allows for dynamic control of the query based upon input to the orchestration.

### About this task

The SForce Object Query Language does not define a syntax for parameterized queries; however, Cast Iron does enforce some proprietary SOQL syntax rules. You can use parameters in either simple expressions or set expressions.

SOSL Syntax Rules for Cast Iron

- Use a (\$) dollar sign to denote a parameter. After the (\$) dollar sign, specify a string of alphanumeric characters. The first character must be a letter [a-zA-Z], optionally followed by one or more letters [a-zA-Z], digits [0-9], or ( \_) underscores.

Note: Parameter names are case-sensitive; therefore, the parameters \$a and \$A are considered to be different parameters.

The following table contains examples of valid and invalid parameter declarations:

Parameter	Valid or Invalid
\$AnAccount	valid
\$a123_456	valid
\$123a	invalid
\$_id	invalid

- You must declare parameters on the right-hand side of an expression in a WHERE clause.
- Parameters can appear more than once in a given SOQL statement. However, even though the parameter appears more than once in the SOQL statement, it only appears once in the input parameter map. The activity substitutes the same value for all locations where the parameter is used at runtime.

Note: When you use the same parameter name and there is a type mismatch, an error occurs. For example, the following SOQL generates an error because \$param is used as both a string and date type:

```
SELECT Name from Account where Name like $param and createdDate > $param
```

- The type of the field in which a parameter is being compared determines the type of the parameter and whether the parameter is being used in a simple expression, a set expression, or part of a set expression.

Type of Expr	Description

essi on	
Simple Expressions	<p>For example: Select ID from Account where Name = \$NameParam</p> <p>The SoapType of the field on the left-hand side of the expression determines the parameter type. If the field type is nullable and the operator is (=) or (!=), then the parameter is nullable. Setting xsi:nil=true on the parameter sets the parameter value to null when it is substituted. If the parameter's type requires it to be enclosed in (‘) single quotes, then the parameter's value is enclosed in single quotes during substitution and its contents are escaped automatically.</p> <p>For SOQL, the (\) backslash and (‘) single-quote will be escaped.</p>
Set Expressions	<p>For example: Select ID From Account where ID in \$idList</p> <p>The parameter's type is a repeating sequence of the SoapType of the field on the left-hand side of the expression. The parameter is not nullable and has minOccurs=1, maxOccurs=unbounded on the element.</p> <p>The sequence is expanded at runtime to be a proper set value, for example:</p> <p>Select Id From Account where Id in (‘value1’,‘value2’)</p>
Part of a Set Expression	<p>Parameters inside a set list are treated like a simple expression parameter type, for example: SELECT Name from Account where BillingState IN (‘California’, \$state2)</p> <p>In this example, the \$state2 parameter type is the SoapType of the Account BillingState field and is not a repeating element. The parameter is not nullable.</p>

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## Retrieve Objects activity

Use this activity to retrieve one or more Salesforce.com objects of a specified type. While the Salesforce.com API limits the number of objects that it can retrieve in a single call to 2,000 objects, the Cast Iron® Salesforce.com connector does not have such a limit. You can use the **Retrieve Objects** activity to retrieve an unlimited number of objects.

### Using the Retrieve Objects activity

1. In the Activities tab, open the Salesforce.com directory to find the Retrieve Objects activity.
2. Add the activity to your orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. Select a Salesforce.com endpoint.

For instructions on creating or editing a Salesforce.com endpoint, see [Creating or editing a Salesforce.com endpoint](#).

4. Configure the activity, by choosing a Salesforce.com object type and object field preferences.

Only object types that the Integration Appliance is able to retrieve via the Salesforce.com API display.

5. Specify the Retry and Time out parameters for the activity.
6. Map the input of the activity.
7. Map the output of the activity.

### Map the input of the Retrieve Objects activity

1. In the Checklist, select Map Inputs.

The `ids` element is displayed in the To Activity pane. The element contains the collection of IDs that the Integration Appliance retrieves from Salesforce.com

2. (Optional) Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:

- `MruHeaderUser`
- `CallOptions`
- `connection`
- `sessionInfo`

3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

*Optional* and *nillable* field elements have the following behavior:

- If the field being retrieved is null, the Integration Appliance sets the `xsi:nil` attribute to `true` in the result.
- If the input ID is not valid or does not represent the object type you specified, then for the entire object element the Integration Appliance sets `xsi:nil` to `true` for that element's position in the result set.

## Map the output of the Retrieve Objects activity

---

1. In the Checklist, select Map Outputs.

The `objects` element is displayed in the From Activity panel. The element contains all fields that you selected in the field preferences table, during the configuration steps.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Salesforce.com activities](#)

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## Search Objects activity

---

### About this task

---

Use the Sforce Object Search Language (SOSL) to run a search query on one or more Salesforce.com object types from this activity and return a results set.

Note: You can only search objects that are configured as searchable or eSearchable. You cannot search attachment objects.

Using the Search Objects activity:

### Procedure

---

1. In the Activities tab, open the Salesforce.com directory to find the **Search Objects** activity.
2. Add the activity to an orchestration. The **Checklist** and **Summary** for the activity is displayed beneath the orchestration.

## Results

---

1. Select a Salesforce.com endpoint. For instructions on creating or editing a Salesforce.com endpoint, see [Creating or Editing a Salesforce.com Endpoint](#).
2. [Configure](#) the activity, by specifying a search query and setting search query options.
3. [Specify](#) the Retry and Time out parameters for the activity.
4. Map the input of the activity.
5. Map the output of the activity.

### Map the input of the Search Objects activity:

1. In the **Checklist**, select Map Inputs. The **parameters** element is displayed in the To Activity panel. The parameter element has a child element for each parameter you specified in the SOSL query. The context for the parameter in the query determines the parameter type. If you did not specify any parameters, then no child elements are displayed under the parameters element.
2. Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:
  - o CallOptions
  - o connection
  - o sessionInfo
3. Click Select Inputs... and select the input variable or variables for the map. For instructions about creating variables, see [Creating variables](#).
4. As appropriate, map the input parameters to the variable or variables. For mapping instructions, see [Creating a map](#).

### Map the output of the Search Objects activity:

1. In the **Checklist**, select Map Outputs. The **objects** element is displayed in the From Activity panel.
2. Click Select Outputs... and select the output variable or variables for the map. For instructions about creating variables, see [Creating variables](#).
3. As appropriate, map the output parameters to the variable or variables. For mapping instructions, see [Creating a map](#).

**Parent topic:** [Salesforce.com activities](#)

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## Undelete Objects activity

---

### About this task

---

Use this activity to restore one or more objects that you deleted in Salesforce.com.

To use the Undelete Objects activity complete the following steps:

### Procedure

---

1. In the Activities tab, open the Salesforce.com directory to find the **Undelete Objects** activity. Add the activity to an orchestration. The **Checklist** and **Summary** for the activity are displayed beneath the orchestration.
2. Select a Salesforce.com endpoint. For instructions on creating or editing a Salesforce.com endpoint, see [Creating or Editing a Salesforce.com Endpoint](#).
3. [Specify](#) the Retry and Time out parameters for the activity.
4. Map the input of the activity.
5. Map the output of the activity.

## Results

---

### Map the input of the Undelete Objects activity

1. In the **Checklist**, select Map Inputs. The **ids** element is displayed in the To Activity panel.

2. Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:
  - o CallOptions
  - o connection
3. Click Select Inputs... and select the input variable or variables for the map. For instructions about creating variables, see [Creating variables](#).
4. As appropriate, map the input parameters to the variable or variables. For mapping instructions, see [Creating a map](#).

#### Map the output of the Undelete Objects activity

1. In the **Checklist**, select Map Outputs. The **results** element is displayed in the From Activity panel.
2. Click Select Outputs... and select the output variable or variables for the map. For instructions about creating variables, see [Creating variables](#).
3. As appropriate, map the output parameters to the variable or variables. For mapping instructions, see [Creating a map](#).

**Parent topic:** [Salesforce.com activities](#)

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## Configuring the Search Objects activity

You must create an SForce Object Search Language (SOSL) query to configure the **Search Objects** activity.

### About this task

The following sections discuss the steps to configure the **Search Objects** activity, create an SOSL query, and provide SOSL syntax rules for IBM® Cast Iron®.

To configure the Search Objects activity complete the following steps:

### Procedure

1. In the Checklist, select Configure. The Specify Query window opens.
2. [Create](#) an SOSL query in the Specify Query window.
3. Optional: You can specify dynamic parameters in the search clause of the SOSL statement. You can then map these parameters dynamically as the input parameters for the activity, which allows the activity to dynamically control the query based upon the input to the orchestration. Use a (\$) dollar sign to denote a parameter and follow it with the parameter name.
4. Click the Validate icon , to validate the query. If the query is invalid, the Validation Feedback icon  shows in the lower left corner of the Specify Query window. For invalid queries:
  - o Click the Validation Feedback icon in the lower left corner of the Specify Query window for a list of validation errors.
  - o Use the Refresh icon  to refresh meta data and revalidate the SOSL statement.

**Parent topic:** [Salesforce.com activities](#)

## Creating SOSL queries

### About this task

When creating a SForce Object Search Language (SOSL) query, you can use dynamic parameters in the WHERE clause of the SOSL statement. Studio can then dynamically map these parameters as the input parameters for the activity. This allows for dynamic control of the query based upon input to the orchestration.

The SForce Object Search Language does not define a syntax for parameterized queries; however, IBM Cast Iron does enforce a few proprietary SOSL syntax rules. You can use parameters in either simple expressions or set expressions.

### SOSL syntax rules for IBM Cast Iron

## About this task

- Use a (\$) dollar sign to denote a parameter. After the (\$) dollar sign, specify a string of alphanumeric characters. The first character must be a letter [a-zA-Z], optionally followed by one or more letters [a-zA-Z], digits [0-9], or ( \_) underscores.  
Note: Parameter names are case-sensitive; therefore, the parameters \$a and \$A are considered to be different parameters.

The following table contains examples of valid and invalid parameter declarations:

Parameter	Valid or Invalid
\$AnAccount	valid
\$a123_456	valid
\$123a	invalid
\$_id	invalid

- You must declare parameters in the Search Query portion of the SOSL statement. Curly braces ( { } ) demarcate the Search Query portion of the SOSL statement.  
Important: Do not use double-quotes ( " " ) to enclose parameters. If you enclose parameters in double-quotes, the activity treats the parameter as a string search literal.
- The parameter type is always xsd:string. During substitution, the activity escapes any parameter that you declare using a reserved character. Reserved characters include the following characters:

Reserved Characters	Description
&	ampersand
*	asterisk
\	back slash
[ ]	box brackets
:	colon
,	comma
{ }	curly braces
"	double quote
!	exclamation mark
-	minus sign
+	plus sign
'	single quote
~	tilda
^	up arrow
	vertical bar

- Parameters can appear more than once in a given SOQL statement. However, even though the parameter appears more than once in the SOQL statement, it only appears once in the input parameter map. The activity substitutes the same value for all locations where the parameter is used at runtime.

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## Update Objects activity

---

Use this activity to update existing objects in Salesforce.com.

## About this task

---

While the Salesforce.com API limits the number of objects that it can update in a single call to 200 objects, the Cast Iron® Salesforce.com Connector does not have such a limit. You can use the Update Objects activity to update an unlimited number of objects. ▶

Using the Update Objects activity.

## Procedure

---

1. In the Activities tab, open the Salesforce.com directory to find the **Update Objects** activity.
2. Add the activity to an orchestration. The **Checklist** and **Summary** for the activity are displayed beneath the orchestration.
3. Select a Salesforce.com endpoint. For instructions on creating or editing a Salesforce.com endpoint, see [Creating or Editing a Salesforce.com Endpoint](#).
4. **Configure** the activity by choosing a Salesforce.com object type and object field preferences. You can only select object types and fields that the Integration Appliance can update. The input map contains the object type with elements that correspond to the fields you select during this configuration step.  
Note: The Integration Appliance cannot create auto-number fields.
5. **Specify** the **Retry** and **Time out** parameters for the activity.
6. Map the input of the activity. The input map consists of an object's input parameter. This parameter consists of a single root element that has a single repeating element, named after the object type you selected, containing all the fields you selected in the Object Field Preferences table.
7. Map the output of the activity.

## Results

---

### Map the input of the Update Objects activity

1. In the **Checklist**, select Map Inputs. The **objects** element is displayed in the To Activity pane.
2. Right-click the default node and choose Show Optional Parameters to show the optional input parameters for this activity:
  - o AssignmentRuleHeader
  - o MruHeader
  - o EmailHeader
  - o CallOptions
  - o connection
  - o sessionInfo
3. Click **Select Inputs...** and select the input variable or variables for the map. For instructions about creating variables, see [Creating variables](#).
4. As appropriate, map the input parameters to the variable or variables. For mapping instructions, see [Creating a map](#).

Optional and nillable field elements have the following behavior:

- The Integration Appliance does not update an optional field, when the Salesforce.com server does not provide a value for the field.
- If you set the xsi:nil attribute to true on a nillable field, the Integration Appliance sets the field to null during an update.  
Note: Setting a field to an empty string does not set a field to null.

### Map the output of the Update Objects activity

1. In the **Checklist**, select Map Outputs. The **saveResults** element is displayed in the From Activity panel.
2. Click **Select Outputs...** and select the output variable or variables for the map. For instructions about creating variables, see [Creating variables](#).
3. As appropriate, map the output parameters to the variable or variables. For mapping instructions, see [Creating a map](#).

**Parent topic:** [Salesforce.com activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Update\\_Objects\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Update_Objects_Activity.html)

# Upsert Objects activity

---

Use this activity to update existing objects or create new objects in Salesforce.com.

## About this task

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The activity uses an external ID, usually a foreign key, to determine whether to update an existing object or create a new object in Salesforce.com.

While the Salesforce.com API limits the number of objects that it can create in a single upsert call to 200 objects, the Cast Iron® Salesforce.com connector does not have such a limit. You can use the **Upsert Objects** activity to create an unlimited number of objects.

To use the **Upsert Objects** activity:

## Procedure

---

1. In the Activities tab, open the Salesforce.com directory to find the **Upsert Objects** activity.
2. Add the activity to an orchestration. The **Checklist** and **Summary** for the activity are displayed beneath the orchestration.
3. Select a Salesforce.com endpoint. For instructions on creating or editing a Salesforce.com endpoint, see [Creating or Editing a Salesforce.com Endpoint](#).
4. **Configure** the activity, by choosing a Salesforce.com object type and object field preferences.  
Note: You can only choose object types that the Integration Appliance can update or create and contain at least one External ID field. When you select the object type, Studio displays the external IDs defined on the object type in the External ID field of the Configure pane. You cannot edit the IDs listed in the External ID list. The external ID that you select becomes a required field, you cannot clear this field from the Object Field Preferences table. If only one external ID is available, Studio automatically selects this field in the Object Field Preferences table.
5. **Specify** the **Retry** and **Time out** parameters for the activity.
6. Map the input of the activity.
7. Map the output of the activity.

## Results

---

### Map the input of the Upsert Objects activity

1. In the **Checklist**, select Map Inputs. The **objects** element is displayed in the To Activity panel.
2. Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:
  - o AssignmentRuleHeader
  - o MruHeader
  - o EmailHeader
  - o CallOptions
  - o connection
  - o sessionInfo
3. Click Select Inputs... and select the input variable or variables for the map. For instructions about creating variables, see [Creating variables](#).
4. As appropriate, map the input parameters to the variable or variables. For mapping instructions, see [Creating a map](#).

This activity supports the following optional input parameters:

- AssignmentRuleHeader
- EmailHeader
- MruHeader

Optional and nillable field elements have the following behavior:

- The Integration Appliance does not update an optional field, when the Salesforce.com server does not provide a value for the field.
- If you set the xsi:nil attribute to true on a nillable field, the Integration Appliance sets the field to null during an update.  
Note: Setting a field to an empty string does not set a field to null.

### Map the output of the Upsert Objects activity

1. In the **Checklist**, select Map Outputs. The **upsertResults** element is displayed in the From Activity panel.

2. Click Select Outputs... and select the output variable or variables for the map. For instructions about creating variables, see [Creating variables](#).
3. As appropriate, map the output parameters to the variable or variables. For mapping instructions, see [Creating a map](#).

**Parent topic:** [Salesforce.com activities](#)

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## Sage CRM Activities

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- [Overview of Sage CRM Connector](#)
- [Creating or editing an endpoint for Sage CRM activity](#)  
Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to Sage CRM. Sage CRM uses Basic HTTP authentication mechanism to authorize users to perform operations.
- [Using the Sage CRM Create Objects Activity](#)  
Use the Create Objects activity to create one or more objects in Sage CRM.
- [Using the Sage CRM Retrieve Objects Activity](#)  
Use the Retrieve Objects activity to fetch details of objects identified by specified id from Sage CRM.
- [Using the Sage CRM Update Objects Activity](#)  
Use the Update Objects activity to update one or more objects in Sage CRM.
- [Using the Sage CRM Delete Objects Activity](#)  
Use the Delete Objects activity to delete one or more objects in Sage CRM.
- [Using the Sage CRM Retrieve All Objects Activity](#)  
Use the Retrieve All Objects activity to fetch details of a specified object type from Sage CRM.
- [Using the Sage CRM Query Objects Activity](#)  
Use the Query Objects activity to execute SData query on a specified object type from Sage CRM.
- [Specifying the Retry options for Sage CRM REST API activities](#)  
Specifying the Retry parameters is one of the tasks to configure Sage CRM activity. The Sage CRM connector automatically retries to connect to Sage CRM instance while executing any connector activity for the specified number of times in case it receives 503 Service unavailable or 504 Gateway timeout status code.

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## Overview of Sage CRM Connector

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Sage CRM is a customer relationship management application, which is available in both on premise and cloud based deployments. The software helps businesses improve customer relationships by organising and automating communications and activities across all customer-facing departments including sales, marketing and customer service. Integration with MailChimp is a popular and widely used integration scenario with Sage CRM.

Key Features of Sage CRM are as below:

- Targeted Marketing
- Accelerated sales
- Email Marketing
- Social CRM

- Mobile CRM

The IBM Cast Iron Connector for Sage CRM supports only cloud deployments. It enables an interface to connect to the Sage CRM through the SData 2.0 ReST-based API offered by Sage. The connector enables fetching data from the CRM and saving / updating data into the CRM for integration. All the objects (except Mobile Views object), including custom objects are supported by the connector. It enables users to Create, Update, Retrieve, Delete and Query (SData supported queries) records / objects available in the application.

You can perform the following activities using the Sage CRM connector:

- Create Objects
- Update Objects
- Delete Objects
- Query Objects
- Retrieve Objects
- Retrieve All Objects

The Sage CRM version currently supported by this connector is 2016 R1 Professional Edition, and API version is SData 2.0.

**Parent topic:** [Sage CRM Activities](#)

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## Creating or editing an endpoint for Sage CRM activity

Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to Sage CRM. Sage CRM uses Basic HTTP authentication mechanism to authorize users to perform operations.

### Selecting or editing a Sage CRM endpoint

1. In the Create Endpoint or Edit Endpoint pane, configure the Sage CRM endpoint as described in the following table.  
Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.
2. Click Test Connection to confirm that the connection details are valid and you are able to connect to Sage CRM successfully.
3. Click OK.

Table 1. Connection properties

Field Name	Description
Deployment Type	Type of deployment used for the Sage CRM instance. Currently only option supported is "Cloud".
Host Name	Host Name for Sage CRM instance. Since this is applicable for on premise version, it is currently disabled.
Username	User name used to identify the authorized user.
Password	Password to authorize the user.

Following parameters are required in endpoint test connection screen to make connection via Proxy:

Field Name	Description
Authentication Type	Authentication Type to be used for connecting to the Proxy Network. It will have values as Basic and NTLM.
Domain	Domain of Proxy Network (enabled only if user selects Authentication type as NTLM)
Host name	Host Name of Proxy Network

<b>Field Name</b>	<b>Description</b>
Port	Port Number of Proxy Network
User Name	User Name for accessing service via proxy network
Password	Password for accessing service via proxy network

Note:

In the Map Input section of each activity, relevant fields of endpoint panel are available to override at runtime. User can provide data to various groups of parameters like Proxy Details, Connection Details or Authentication Details to override. Providing only partial field data in a selected group is not allowed to override.

## Objects Supported by the Sage CRM Connector

---

Following standard objects are supported by the Sage CRM Connector:

<b>Sage CRM Objects</b>	<b>Create</b>	<b>Update</b>	<b>Delete</b>	<b>Query</b>	<b>Retrieve</b>	<b>Retrieve All</b>
Activity	Yes	Yes	Yes	Yes	Yes	Yes
Address	Yes	Yes	Yes	Yes	Yes	Yes
Address_Link	Yes	Yes	Yes	Yes	Yes	Yes
CallList	Yes	Yes	Yes	Yes	Yes	Yes
CallListTracker	Yes	Yes	Yes	Yes	Yes	Yes
Campaigns	Yes	Yes	Yes	Yes	Yes	Yes
CaseProgress	Yes	Yes	Yes	Yes	Yes	Yes
Cases	Yes	Yes	Yes	Yes	Yes	Yes
Channel	Yes	Yes	Yes	Yes	Yes	Yes
CoachingCaptions	Yes	Yes	Yes	Yes	Yes	Yes
Comm_Link	Yes	Yes	Yes	Yes	Yes	Yes
Communication	Yes	Yes	Yes	Yes	Yes	Yes
Company	Yes	Yes	Yes	Yes	Yes	Yes
CSE_Address	Yes	Yes	Yes	Yes	Yes	Yes
CSE_Note	Yes	Yes	Yes	Yes	Yes	Yes
Currency	Yes	Yes	Yes	Yes	Yes	Yes
Custom_Pages	Yes	Yes	Yes	Yes	Yes	Yes
Device	Yes	Yes	Yes	Yes	Yes	Yes
Email	Yes	Yes	Yes	Yes	Yes	Yes
FieldSecurity	Yes	Yes	Yes	Yes	Yes	Yes
Forecast	Yes	Yes	Yes	Yes	Yes	Yes
ForecastHistory	Yes	Yes	Yes	Yes	Yes	Yes
Lead	Yes	Yes	Yes	Yes	Yes	Yes
LeadProgress	Yes	Yes	Yes	Yes	Yes	Yes
Library	Yes	Yes	Yes	Yes	Yes	Yes
Activity	Yes	Yes	Yes	Yes	Yes	Yes
Address	Yes	Yes	Yes	Yes	Yes	Yes
Address_Link	Yes	Yes	Yes	Yes	Yes	Yes
CallList	Yes	Yes	Yes	Yes	Yes	Yes
CallListTracker	Yes	Yes	Yes	Yes	Yes	Yes
Campaigns	Yes	Yes	Yes	Yes	Yes	Yes

Sage CRM Objects	Create	Update	Delete	Query	Retrieve	Retrieve All
CaseProgress	Yes	Yes	Yes	Yes	Yes	Yes
Cases	Yes	Yes	Yes	Yes	Yes	Yes
Channel	Yes	Yes	Yes	Yes	Yes	Yes
CoachingCaptions	Yes	Yes	Yes	Yes	Yes	Yes
Comm_Link	Yes	Yes	Yes	Yes	Yes	Yes
Communication	Yes	Yes	Yes	Yes	Yes	Yes
Company	Yes	Yes	Yes	Yes	Yes	Yes
CSE_Address	Yes	Yes	Yes	Yes	Yes	Yes
CSE_Note	Yes	Yes	Yes	Yes	Yes	Yes
Currency	Yes	Yes	Yes	Yes	Yes	Yes
Custom_Pages	Yes	Yes	Yes	Yes	Yes	Yes
Device	Yes	Yes	Yes	Yes	Yes	Yes
Email	Yes	Yes	Yes	Yes	Yes	Yes
FieldSecurity	Yes	Yes	Yes	Yes	Yes	Yes
Forecast	Yes	Yes	Yes	Yes	Yes	Yes
ForecastHistory	Yes	Yes	Yes	Yes	Yes	Yes
Lead	Yes	Yes	Yes	Yes	Yes	Yes
LeadProgress	Yes	Yes	Yes	Yes	Yes	Yes
Library	Yes	Yes	Yes	Yes	Yes	Yes
Currency	Yes	Yes	Yes	Yes	Yes	Yes
Custom_Pages	Yes	Yes	Yes	Yes	Yes	Yes
Device	Yes	Yes	Yes	Yes	Yes	Yes
Email	Yes	Yes	Yes	Yes	Yes	Yes
FieldSecurity	Yes	Yes	Yes	Yes	Yes	Yes
Forecast	Yes	Yes	Yes	Yes	Yes	Yes
ForecastHistory	Yes	Yes	Yes	Yes	Yes	Yes
Lead	Yes	Yes	Yes	Yes	Yes	Yes
LeadProgress	Yes	Yes	Yes	Yes	Yes	Yes
Library	Yes	Yes	Yes	Yes	Yes	Yes
Location	Yes	Yes	Yes	Yes	Yes	Yes
Marketing	Yes	Yes	Yes	Yes	Yes	Yes
NewProduct	Yes	Yes	Yes	Yes	Yes	Yes
Notes	Yes	Yes	Yes	Yes	Yes	Yes
Opportunity	Yes	Yes	Yes	Yes	Yes	Yes
OpportunityHistory	Yes	Yes	Yes	Yes	Yes	Yes
OpportunityItem	Yes	Yes	Yes	Yes	Yes	Yes
OpportunityProgress	Yes	Yes	Yes	Yes	Yes	Yes
OrderItems	Yes	Yes	Yes	Yes	Yes	Yes
Orders	Yes	Yes	Yes	Yes	Yes	Yes
PasswordSecurity	Yes	Yes	Yes	Yes	Yes	Yes
Person	Yes	Yes	Yes	Yes	Yes	Yes

Sage CRM Objects	Create	Update	Delete	Query	Retrieve	Retrieve All
Phone	Yes	Yes	Yes	Yes	Yes	Yes
Pricing	Yes	Yes	Yes	Yes	Yes	Yes
PricingList	Yes	Yes	Yes	Yes	Yes	Yes
ProductFamily	Yes	Yes	Yes	Yes	Yes	Yes
Products	Yes	Yes	Yes	Yes	Yes	Yes
QuoteItems	Yes	Yes	Yes	Yes	Yes	Yes
Quotes	Yes	Yes	Yes	Yes	Yes	Yes
RollUpHistory	Yes	Yes	Yes	Yes	Yes	Yes
SalesPerson	Yes	Yes	Yes	Yes	Yes	Yes
SLA	Yes	Yes	Yes	Yes	Yes	Yes
SLAAction	Yes	Yes	Yes	Yes	Yes	Yes
SLASeverity	Yes	Yes	Yes	Yes	Yes	Yes
SolutionLink	Yes	Yes	Yes	Yes	Yes	Yes
Solutions	Yes	Yes	Yes	Yes	Yes	Yes
SolutionsProgress	Yes	Yes	Yes	Yes	Yes	Yes
TaxCode	Yes	Yes	Yes	Yes	Yes	Yes
UOM	Yes	Yes	Yes	Yes	Yes	Yes
UOMFamily	Yes	Yes	Yes	Yes	Yes	Yes
UserAgents	Yes	Yes	Yes	Yes	Yes	Yes
UserContacts	Yes	Yes	Yes	Yes	Yes	Yes
Users	Yes	Yes	Yes	Yes	Yes	Yes
WaveItems	Yes	Yes	Yes	Yes	Yes	Yes
Waves	Yes	Yes	Yes	Yes	Yes	Yes

## Custom Objects support:

Any custom objects created in Sage CRM will be treated as a normal object from the point of view of the Cast Iron Sage CRM connector.

## Custom Fields support:

Any custom field(s) created in Sage CRM will be treated as a normal field from the point of view of the Cast Iron Sage CRM connector.

**Parent topic:** [Sage CRM Activities](#)

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## Using the Sage CRM Create Objects Activity

Use the Create Objects activity to create one or more objects in Sage CRM.

## About this task

---

Use this task to create one or more objects in the Sage CRM. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Sage CRM endpoint to the orchestration and select Create Objects activity.
3. The Create Objects activity will be added to the orchestration. Select the activity. The Sage CRM Create Objects Checklist is displayed.
4. In the checklist, click Configure.
5. Click Browse to select the object type. The Browse Sage CRM window is displayed.
6. In Browse Sage CRM, you can select the object type from the object type list. Click OK.
7. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Sage CRM REST API activities](#).
8. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Create Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
9. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
10. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
11. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Sage CRM Create Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the Object tag in the To Activity pane of Map Inputs, and select Expand Occurrences.

Objects which have references with other custom or standard objects, with relationship types as "association" and not read only will be shown in the map inputs. In such cases, it is possible to create / update the configured custom object along with the referenced object.

**Parent topic:** [Sage CRM Activities](#)

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## Using the Sage CRM Retrieve Objects Activity

---

Use the Retrieve Objects activity to fetch details of objects identified by specified id from Sage CRM.

## About this task

---

Use this task to retrieve objects based on ID in the Sage CRM instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. Right click the Orchestrations section and select new orchestration.

2. Drag the newly created Sage CRM endpoint to the orchestration and select Retrieve Objects activity.
3. The Retrieve Objects activity will be added to the orchestration. Select the activity. The Sage CRM Retrieve Objects Checklist is displayed.
4. In the checklist, click Configure.
5. Click Browse to select the object type. The Browse Sage CRM window is displayed.
6. In Browse Sage CRM, you can select the object type from the object type list. Click OK.
7. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Retrieve Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
8. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Sage CRM REST API activities](#).
9. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
10. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
11. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Sage CRM Retrieve Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the key tag in the object in the To Activity pane of Map Inputs, and select Expand Occurrences.

**Parent topic:** [Sage CRM Activities](#)

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## Using the Sage CRM Update Objects Activity

---

Use the Update Objects activity to update one or more objects in Sage CRM.

### About this task

---

Use this task to update one or more objects in the Sage CRM instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Sage CRM endpoint to the orchestration and select Update Objects activity.
3. The Update Objects activity will be added to the orchestration. Select the activity. The Sage CRM Update Objects Checklist is displayed.
4. In the checklist, click Configure.
5. Click Browse to select the object type. The Browse Sage CRM window is displayed.
6. In Browse Sage CRM, you can select the object type from the object type list. Click OK.
7. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Update Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
8. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Sage CRM REST API activities](#).
9. Create a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

10. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
11. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Sage CRM Update Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the object tag in the To Activity pane of Map Inputs, and select Expand Occurrences.

Objects which have references with other custom or standard objects, with relationship types as "association" and not read only will be shown in the map inputs. In such cases, it is possible to create / update the configured custom object along with the referenced object.

**Parent topic:** [Sage CRM Activities](#)

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## Using the Sage CRM Delete Objects Activity

---

Use the Delete Objects activity to delete one or more objects in Sage CRM.

### About this task

---

Use this task to delete one or more objects in the Sage CRM instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Sage CRM endpoint to the orchestration and select Delete Objects activity.
3. The Delete Objects activity will be added to the orchestration. Select the activity. The Sage CRM Delete Objects Checklist is displayed.
4. In the checklist, click Configure.
5. Click Browse to select the object type. The Browse Sage CRM window is displayed.
6. In Browse Sage CRM, you can select the object type from the object type list. Click OK.
7. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Delete Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
8. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Sage CRM REST API activities](#).
9. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
10. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
11. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Sage CRM Delete Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the key tag in the object in the To Activity pane of Map Inputs, and select Expand Occurrences.

**Parent topic:** [Sage CRM Activities](#)

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## Using the Sage CRM Retrieve All Objects Activity

---

Use the Retrieve All Objects activity to fetch details of a specified object type from Sage CRM.

### About this task

---

Use this task to retrieve all object details of a specified object type in the Sage CRM instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Sage CRM endpoint to the orchestration and select Retrieve All Objects activity.
3. The Retrieve All Objects activity will be added to the orchestration. Select the activity. The Sage CRM Retrieve All Objects Checklist is displayed.
4. In the checklist, click Configure.
5. Click Browse to select the object type. The Browse Sage CRM window is displayed.
6. In Browse Sage CRM, you can select the object type from the object type list. Click OK.
7. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Retrieve All Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
8. In the Checklist, click Retry. Review the default settings and make the required changes.  
Note: For more information, see [Specifying the Retry options for Sage CRM REST API activities](#).
9. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
10. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
11. Create a map between the output parameters and orchestration variables.

#### Query Parameter:

Table 1. Supported Query parameters for the Retrieve All Objects

Field Name	Description
startIndex	Start index of the record from which the result of the API call should start
Count	Count of number of objects to be displayed in the response.

Atleast one of the above query parameters should have a value mapped / default value for the activity to execute successfully.

## Results

---

You have configured the Sage CRM Retrieve All Objects activity.

Note:

This activity works on fetching multiple records of a specified type. As such, the input response would be single, which is applicable to a single retrieve all API call to fetch multiple objects.

**Parent topic:** [Sage CRM Activities](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SageCRM\\_retrieve\\_all\\_objects\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SageCRM_retrieve_all_objects_activity.html)

## Using the Sage CRM Query Objects Activity

---

Use the Query Objects activity to execute SData query on a specified object type from Sage CRM.

### About this task

---

Use this task to execute an SData query on a specified object type in the Sage CRM instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created Sage CRM endpoint to the orchestration and select Query Objects activity.
3. The Query Objects activity will be added to the orchestration. Select the activity. The Sage CRM Query Objects Checklist is displayed.
4. In the checklist, click Configure.
5. Input the valid query parameters with a ? as a placeholder for the value. To configure multiple query parameters, separate each query parameter with a &. Some query examples:

```
select=?&where=?  
startIndex=?&count=?  
orderBy=?  
select=?&where=?orderBy=?  
    where=Lead_UpdatedDate lt @2016-01-10@
```

*Note that the query string should not begin with a ?.*

6. Click Browse to select the object type. The Browse Sage CRM window is displayed.
7. In Browse Sage CRM, you can select the object type from the object type list. Click OK.
8. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Query Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
9. In the Checklist, click Retry. Review the default settings and make the required changes.  
*Note: For more information, see [Specifying the Retry options for Sage CRM REST API activities](#).*
10. Create a map between the orchestration variables and the input parameter of the activity.  
*Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.*
11. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
12. Create a map between the output parameters and orchestration variables.

**Query Parameter:**

Table 1. Common Query parameters for the Query Objects

Field Name	Description
------------	-------------

Field Name	Description
startIndex	Start index of the record from which the result of the API call should start
count	Count of number of objects to be displayed in the response.
where	Specifies a filtering criteria. Only the resources that match the criteria specified in the where parameter are returned.
orderBy	Specifies an ordering criteria. The collection is sorted by ascending or descending order of the attribute names specified in this parameter.
select	Selects the properties that will be returned in the payload. This parameter allows a client to request that a specific list of properties be returned in the payload. It gives precise control over the breadth and depth of information returned.

Atleast one of the above query parameters should have a value mapped / default value for the activity to execute successfully.

## Results

---

You have configured the Sage CRM Query Objects activity.

Note:

This activity works on fetching multiple records of a specified type. As such, the input response would be single, which is applicable to a single retrieve all API call to fetch multiple objects.

**Parent topic:** [Sage CRM Activities](#)

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## Specifying the Retry options for Sage CRM REST API activities

---

Specifying the Retry parameters is one of the tasks to configure Sage CRM activity. The Sage CRM connector automatically retries to connect to Sage CRM instance while executing any connector activity for the specified number of times in case it receives 503 Service unavailable or 504 Gateway timeout status code.

### About this task

---

This section contains the procedure for configuring the Retry options for Sage CRM API activities.

### Procedure

---

1. Select the Retry task from the Checklist. The retry pane is displayed.
2. Configure the retry and timeout options for connecting to an Sage CRM instance, as described in the following table:

Table 1. Retry options

Retry Fields	Description
Wait __ seconds between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the Sage CRM instance.

Retry Fields	Description
Retry __ times before failing.	<p>Specifies the retry count – the maximum number of times the Integration Appliance attempts to establish a connection to the Sage CRM instance before issuing an error and stopping the processing of the current orchestration job.</p> <p>Note: If you deploy an orchestration that contains the Sage CRM REST API activity and the Integration Appliance cannot connect to the specified Sage CRM instance, the Integration Appliance logs the connections errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3, the first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.</p>
Stop processing rest of the records of the batch if failure detected even after the configured no. of retries.	<p>Specifies that if a batch of records is sent as input to an orchestration, and if failure is detected in between, then the remaining records should be processed or not.</p> <p>For example, if the retry count is set to 3 and a batch of 5 records is sent as input to the orchestration. If, after processing the 1st record of batch, the Integration Appliance cannot connect to the specified Sage CRM instance even after configured number of retries i.e. 3 retry attempts, then the processing of the remaining 4 records will not be done and execution will be terminated if this option is selected.</p> <p>For the similar settings, if this option is not selected, then the remaining 4 records would be attempted to be processed.</p>

**Parent topic:** [Sage CRM Activities](#)

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## Salesforce Analytics activities

---

- [Overview of the Salesforce Analytics connector](#)  
The IBM Salesforce Analytics Connector is an add-on developed with the Cast Iron Connector development kit (CDK).
- [How to Install the Salesforce Analytics Connector](#)
- [Use case with CSV format data](#)  
Steps for the integration process for simple csv format is described below
- [Use case with XML format data](#)  
Steps for the integration process for XML data format is described below
- [Create Dataset Activity](#)  
This activity creates a dataset with a name ( EdgeMartAlias ) and the metadata for the object
- [Load Data Activity](#)  
This activity loads the file data to the dataset. The data can be passed in bulk or split in accordance with the Salesforce API limitation, where each chunk must contain less than 10,000 rows
- [Load Data Activity - Continued](#)
- [Update Dataset Activity](#)  
Use the 'Update Dataset' activity to indicate that the data file has been completely uploaded, and can be processed by the Analytics Cloud engine
- [Retrieve Dataset Activity](#)  
Use the 'Retrieve Dataset' activity to check the status of the data file processing. This activity will retrieve the Dataset of the Id specified in input
- [Example 1: How to Configure the Write XML Activity for XML Data](#)
- [Example 1: Continued](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_salesforceconnectoractivities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_salesforceconnectoractivities.html)

## Overview of the Salesforce Analytics connector

---

The IBM Salesforce Analytics Connector is an add-on developed with the Cast Iron Connector development kit (CDK).

This connector :

1. provides essential functionality for integration with Salesforce Analytics
2. provides a consistent look and feel like the other Cast Iron endpoints and activities
3. provides integration with Analytics Cloud with minimal API knowledge requirement
4. provides an optional ability to convert XML to CSV data for integration with Salesforce Analytics
5. provides an ability to split data into chunks of 10,000 rows

**Parent topic:** [Salesforce Analytics activities](#)

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## How to Install the Salesforce Analytics Connector

---

1. Open Cast Iron Studio 7.0.0.2
2. Select 'Solutions' â†' **'Plugin Connectors'** and login with your credentials
3. If the older version of the connector is installed, uninstall the same, by following the steps listed below
  - a. In the **'Plugin Connectors'** window, select the **'Installed'** Tab
  - b. Select **'C0024-IBM\_Connector\_for\_Salesforce\_Analytics'**
  - c. Click on **'Uninstall'**
  - d. Restart Studio
  - e. Using Windows Explorer, browse through C:\Users\<currentuser>\castiron\connector-repository
  - f. Confirm that the folder **'C0024-IBM\_Connector\_for\_Salesforce\_Analytics-1\_0'** does not exist under C:\Users\<currentuser>\.castiron\connector-repository. If it exists, delete the same
4. In the Cast Iron Studio, Select 'Solutions' â†' **'Plugin Connectors'** and login with your credentials
5. Under **'Available'** Tab, select **'C0024-IBM\_Connector\_for\_Salesforce\_Analytics'**
6. Click on **'Install'**
  7. 1) The message **'Finished installing selected connectors'** would be displayed.
  8. Restart Studio. **This completes the installation process successfully**
9. **Note :** If you open an old project using the older version of the project, it would ask you to 'Update' the project first

**Parent topic:** [Salesforce Analytics activities](#)

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# Use case with CSV format data

---

Steps for the integration process for simple csv format is described below

## Procedure

---

1. Use the Salesforce tools or manually create the metadata JSON file for the data to be loaded onto Analytics Cloud
2. Load the JSON file into the Cast Iron project as a default value in a string variable
3. Use the appropriate Cast Iron activity (HTTP, FTP, etc) to receive the CSV data
4. Use the 'Create Dataset' activity to map 'EdgeMartAlias' and 'Operation'. Specify 'Format' to be 'CSV'. Base-64 encode the JSON and map to 'MetadataJson'
5. Use the 'Load Data' activity to map the 'InsightsExternalDataId' and 'PartNumber' (optional) Base-64 encode the CSV and map to 'DataFile'. Specify 'DataFormat' to be 'CSV'
6. Use the 'Update Dataset' activity to set the 'Status' of the dataset to 'Process'
7. Use the 'Retrieve Dataset' activity and poll Analytics Cloud for the status of the data load

**Parent topic:** [Salesforce Analytics activities](#)

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# Use case with XML format data

---

Steps for the integration process for XML data format is described below

## Procedure

---

1. Use the Salesforce tools or manually create the metadata JSON file for the data to be loaded onto Analytics Cloud
2. Load the JSON file into the Cast Iron project as a default value in a string variable
3. Use the appropriate Cast Iron activity (HTTP, FTP, etc) to receive the XML data
4. 1. Use the 'Create Dataset' activity to map the 'EdgeMartAlias' and 'Operation'. Specify 'Format' to be 'CSV'. Base-64 encode the JSON and map to MetadataJson
5. 1. Serialize the XML data using the 'Write XML' activity. Refer [Example 1: How to Configure the Write XML Activity for XML Data](#) on how to configure this activity to serialize the XML correctly
6. Use the 'Load Data' activity to map the 'InsightsExternalDataId' and 'PartNumber' (optional). Base-64 encode the XML and map to 'DataFile'. Specify 'DataFormat' to be 'XML'. This will configure the connector to internally convert the XML to CSV and invoke the SFDC Analytics API with the CSV
7. Use the 'Update Dataset' activity to set the processing status Refer the topic " How to configure the Write XML Activity for XML Data "
8. Use the 'Retrieve Dataset' activity to poll Analytics Cloud for the status of the data load

**Parent topic:** [Salesforce Analytics activities](#)

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# Create Dataset Activity

---

This activity creates a dataset with a name ( EdgeMartAlias ) and the metadata for the object

## Procedure

---

1. The mandatory fields are:
  - a. ' EdgemartAlias ': Specify the dataset name. It must be unique across the organization
  - b. 'Format': Specify 'CSV' which is the only format accepted at the moment
  - c. 'Operation': Set to 'Overwrite'
2. Optional fields are:
  - a. 'Action ': Defaults to None
3. If the operation is successful, will return an 'Id' value for the dataset. This value must be maintained throughout the orchestration, to associate the file data to the dataset

**Parent topic:** [Salesforce Analytics activities](#)

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## Load Data Activity

---

This activity loads the file data to the dataset. The data can be passed in bulk or split in accordance with the Salesforce API limitation, where each chunk must contain less than 10,000 rows

## Procedure

---

Note:

### Salesforce Analytics API Limits:

The number of rows in a single data load, cannot be more than 10,000. If the ' DataFile ' of the 'Load Data' Activity has more than 10,000 rows and no ' PartNumber ' is specified, the connector will take care of splitting it into chunks of 10,000 rows and then invoke the Salesforce Analytics API with PartNumber starting at 1

A few other limits are listed below. It is the responsibility of the integration developer to ensure that the data adheres to the latest limits specified by the Salesforce Analytics documentation

- a. Maximum file size per external data upload
- b. Maximum number of characters in a field
- c. Maximum number of fields in a record
- d. Data or data chunks are less than 10-MB

The mandatory fields are:

- a. ' InsightsExternalDataId ': Specify the Id value of the dataset received from Create Dataset activity
- b. ' DataFile ': Map the file data encoded using the Base64 Encode function. File data can be in CSV or XML format
- c. ' DataFormat ': Specify if the ' DataFile ' is in XML or CSV format. ('XML' or 'CSV' are the accepted values). This field is used internally by the connector to understand the format of ' DataFile '

### Result:

If the ' DataFormat ' is XML, the connector would try to convert the ' DataFile ' from XML to CSV.

If the ' DataFormat ' is 'CSV', no conversion will happen.

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## Load Data Activity - Continued

---

### About this task

1. The optional field is PartNumber.
  - a. If no value is specified, the connector checks if the DataFile has more than 10,000 rows. If the ' DataFile ' has more than 10,000 rows, the connector would internally split the data in to chunks of 10,000 and upload the data to Salesforce Analytics with PartNumber starting at 1.
  - b. If value is specified, the connector would not do any splitting and just upload the data to Salesforce Analytics with the specified ' PartNumber '.
  - c. ' DataFormat ': Specify if the ' DataFile ' is in XML or CSV format. ('XML' or 'CSV' are the accepted values). This field is used internally by the connector to understand the format of ' DataFile '.
2. Refer the topic [Example 1: How to Configure the Write XML Activity for XML Data](#) to see how the 'Write XML' activity should be configured to serialize the XML data in the orchestration

Note: If the `success` field has the value `true`, the operation is successful. If `false`, it has failed.

PartNumber	DataFormat	Connector Behavior
Specified	XML	The connector will convert DataFile into CSV, but will not split the CSV. Special characters like comma, double quotes, new line will be escaped during conversion. It will upload the CSV to Salesforce Analytics
Specified	CSV	The connector will not do any conversion or splitting. It will upload the CSV as-is to Salesforce Analytics. It is responsibility of integration developer to escape the special characters in the CSV as specified in the Salesforce Analytics documentation
Not Specified	XML	The connector will try to convert DataFile into CSV and also, split the CSV into chunks of 10,000 rows. Special characters like comma, double quotes, new line will be escaped during conversion. It will upload the data chunks to Salesforce Analytics with PartNumber starting with 1
Not Specified	CSV	The connector will not do any conversion, but will split the DataFile into chunks of 10,000 rows and upload the chunks to Salesforce Analytics with PartNumber starting with 1. Please note that the connector uses newline character as the line separator for splitting the CSV. To use this configuration, the CSV data should not contain any newline character as part of field value. It is responsibility of integration developer to escape the special characters in the CSV as specified in the Salesforce Analytics documentation

**Parent topic:** [Salesforce Analytics activities](#)

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## Update Dataset Activity

---

Use the 'Update Dataset' activity to indicate that the data file has been completely uploaded, and can be processed by the Analytics Cloud engine

## Procedure

---

The mandatory fields are :

- a. **'Id'**: Specify the Id value received from Create Dataset activity
- b. **'Action'**: Set the value to "Process"

## Results

---

If the "success" field has the value "true", the operation is successful. If "false", it has failed

**Parent topic:** [Salesforce Analytics activities](#)

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## Retrieve Dataset Activity

---

Use the 'Retrieve Dataset' activity to check the status of the data file processing. This activity will retrieve the Dataset of the Id specified in input

## Procedure

---

The mandatory fields is :

- a. **'Id'**: Specify the Id value received from Create Dataset activity

## Results

---

The response contains the information about the dataset. The Status field in the response will contain the current processing state

1. "Completed" indicates the data has been successfully loaded into Analytics Cloud
2. "Errored" indicates there was a problem. Use the Job view in the Analytics Cloud UI to identify the cause of the error
3. "In Progress" indicates that the Analytics Cloud engine is still processing the data

Note:

There are other status values too (Check out the Salesforce Analytics Documentation for details). However, these are the most important ones from an integration perspective

**Parent topic:** [Salesforce Analytics activities](#)

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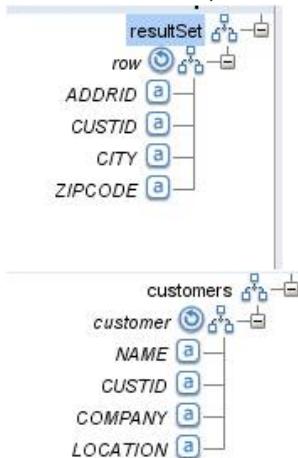
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## Example 1: How to Configure the Write XML Activity for XML Data

### Procedure

In the 'Load Data Activity', if the 'DataFile' field is in XML format and 'DataFormat' field has the value "XML":

- a. Map the XML or its fragment, needed to the 'Write XML' Activity, to serialize it
- b. Refer the examples below for the structure of an XML or an XML fragment – these are for illustrative purposes only and the XML element names, can be different, based on the usecase



**Parent topic:** [Salesforce Analytics activities](#)

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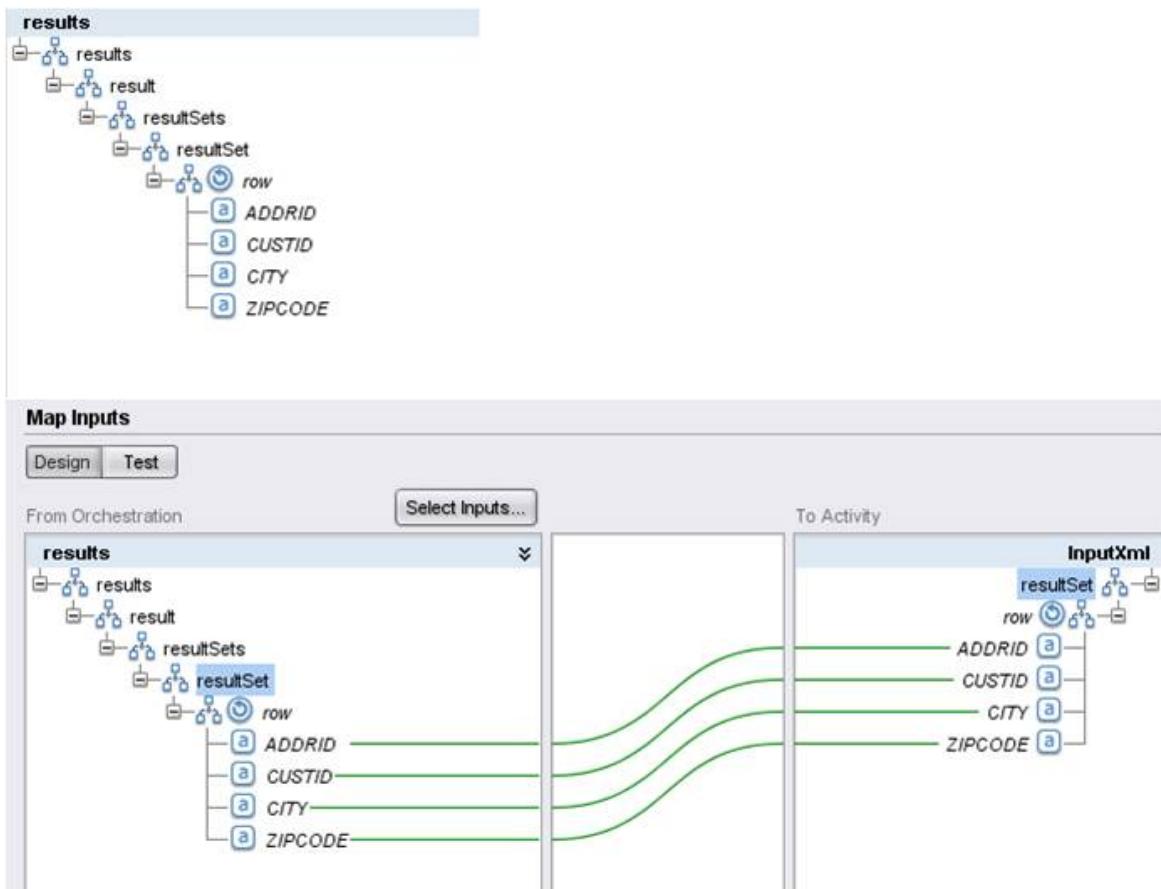
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Salesforce\\_analytics\\_connector\\_writexml.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Salesforce_analytics_connector_writexml.html)

## Example 1: Continued

### Procedure

1. If the XML or the XML fragment, looks as in Figure 1, configure the Map Inputs of 'Write XML' as in Figure 2, while serializing it
2. When the serialized XML is sent to the 'Load Data' Activity, it will produce a CSV internally and send it to the Salesforce Analytics. For example:
  - o **ADDRID,CUSTID,CITY,ZIPCODE**
  - o **id41931,bangalore,560000,41931**
  - o **id41932,bangalore,560000,41932**
  - o **id41933,bangalore,560000,41933**



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## SAP activities

---

- [Overview of the SAP connector](#)
- [Creating or editing a SAP endpoint](#)  
 Endpoints provide the SAP connection information that Studio and the Integration Appliance use to connect to the SAP system.
- [Downloading and installing the SAP Jar Files and DLLs](#)  
 To connect to an SAP system from studio, you must install SAP DLLs and jar files onto your Windows development machine. You must have the SAP login credentials to enter the SAP Support Portal and download the files.
- [Configuring Single Sign-on \(SSO\) and Secure Network Communications \(SNC\) for SAP connector](#)
- [SAP Invoke BAPI activity](#)  
 Use the SAP Invoke BAPI activity to call a Business Object Method (BAPI), that is remotely enabled at the specified SAP Endpoint, during run time.
- [SAP Invoke RFC activity](#)  
 Use the SAP Invoke RFC activity to call a Remote Function Call (RFC), that is remotely enabled at the specified SAP endpoint, during run time.
- [SAP Receive IDOC activity](#)  
 Use the SAP Receive IDOC activity to act as a server and listen on the configured SAP endpoint, during run time. The activity

receives an IDOC from the specified SAP endpoint and converts it to XML data. The SAP Receive IDOC activity is a starter activity.

- [SAP Send IDOC activity](#)

Use the SAP Send IDOC activity to send an IDOC to the specified SAP endpoint, during run time.

- [SAP Receive RFC activity](#)

Use the SAP Receive RFC activity to act as a server and listen on the configured SAP endpoint, during run time. The activity receives RFC from the specified SAP endpoint and converts it to XML data. The SAP Receive RFC activity is a starter activity. This activity can be configured in both synchronous and asynchronous mode.

- [SAP Send RFC Response activity](#)

The SAP **Send RFC Response** activity sends a reply back to the sender (SAP) of the SAP Receive RFC request.

- [Troubleshooting and support](#)

Troubleshooting techniques and self-help information help you identify and solve problems quickly. This topic provides potential solutions for issues you would have with the SAP connector.

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## Overview of the SAP connector

---

The SAP connector enables a two-way communication between Cast Iron and the SAP instance. The connector supports Business Application Programming Interface (BAPI), Remote Function Call (RFC), and Intermediate Document (IDOC) interfaces.

You can perform the following activities using the SAP connector:

- Outbound Activities

- [Invoke BAPI](#)
- [Invoke RFC](#)
- [Send IDOC](#)

- Inbound/Starter Activities

- [Receive IDOC](#)

The SAP connector supports SAP Java Connector (JCo) libraries to work with SAP via IDOC, RFC and BAPI interfaces.

The SAP connector requires the SAP JCo libraries to connect to the SAP instance. The connector supports JCo version 3.0.x or later versions. For more information, see [Downloading and installing the SAP Jar Files and DLLs](#).

**Parent topic:** [SAP activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP\\_Overview.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP_Overview.html)

## Creating or editing a SAP endpoint

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Endpoints provide the SAP connection information that Studio and the Integration Appliance use to connect to the SAP system.

### Procedure

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1. Drag an activity from the SAP folder of the Activities tab onto the orchestration.

The Summary pane is displayed along with a Checklist which outlines what you must do to configure the activity.

2. Click Endpoint task from the Checklist and click on one of the following options:
  - Browse â€”To select an existing endpoint from the Project Explorer. Once a SAP endpoint has been added, you can click Edit to edit it.  
Note: Editing an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.
  - New â€”To create a new endpoint. The Create Endpoint window is displayed.
  - Edit â€”To edit the existing endpoint. The Edit Endpoint window is displayed.
3. Complete the fields defined in the tables below.
4. When finished, click Test Connection to confirm that you can connect to the SAP System.
5. Click OK.

**Table 1. SAP Options**

Field	Description
<b>Location</b>	
Host Name	Specifies the IP Address or the machine name that contains the SAP system.
System Number	Specifies the number that identifies the specific instance of the SAP system that Studio should connect to. Your SAP administrator must supply this information.
<b>Client Information</b>	
SAP Client	Specifies a number that identifies Studio and the Integration Appliance as a client for the SAP system. Your SAP administrator must supply this information.
Language	Specifies the message language option for SAP. For example, EN is the ISO code for English.
<b>SAP Login Details</b>	
Username/Password based authentication	Specifies the user name and password of the user account of the SAP connector on the SAP system.
User name	Specifies the user name to use when connecting to the SAP system.
Password	Specifies the password to the user name when connecting to the SAP system.
SSO Token based authentication	Specifies that this option needs to be selected if the SSO Token is to be specified to log on to the SAP system.
SSO Token	Specifies the single sign-on (SSO) token.
Secure Network Connection (SNC)	Indicates that this check box must be selected for SNC. Note: When the SNC check box is selected, the Username/Password based authentication is cleared. To use this option, you must select it again.
Secure Network Connection (SNC) name	Specifies the distinguished name of the SNC connection.
Secure Network Connection (SNC) partner	Specifies the distinguished name of the SNC partner.
Secure Network Connection (SNC) security level	Specifies the level of security of SNC.
X509 Certificate	Specifies the X509 certificate to be used as the logon ticket. This field is optional only if Username/Password based authentication is used with SNC.
For more information about configuring SSO and SNC, see <a href="#">Configuring Single Sign-on (SSO) and Secure Network Communications (SNC) for SAP connector</a>	
<b>Connection Pool Options</b>	
Maximum Connections	Specifies the additional SAP connections, up to the specified amount, that the Integration Appliance opens based on the message load.
Maximum Idle Time	Specifies the number of minutes that a SAP connection can be open and idle before being closed by the Integration Appliance.

Field	Description
<b>Inbound Gateway</b>	
Enable inbound gateway	Select this check box if this endpoint is used by a Receive IDOC activity and Receive RFC activity.
Host	Specifies the hostname of the SAP gateway.
Server Instances	Specifies the maximum number of Servers that can be registered with the same programID within an SAP instance.
Program ID	Specifies the ID of the registered Server. This ID is assigned when the RFC destination port is configured. SAP Program IDs cannot start with the exclamation (!) character. Note: For SAP systems, the Program ID name is case sensitive. For example, the Program ID name: Aaa is not equivalent to the Program ID name: aaa.
Service	Specifies the name of the SAP gateway service.
Retry Interval	Specifies the number of seconds that the Integration Appliance should wait before trying to re-establish a connection to the gateway of the SAP system.
<b>Remote Endpoint Configuration</b>	Â
Endpoint Runs Behind Firewall	Enables the secure connector name property so that secure connector can be used if the SAP application is running behind a firewall.
Secure Connector Name	Specifies the name of the secure connector that is used to connect to the SAP application running behind a firewall. For example, if an orchestration containing an SAP activity is deployed on to Cast Iron Live (cloud), then the secure connector needs to be configured.

Note: For some of the fields in the endpoint, you can [define configuration properties](#) to supply the values for these fields. The  icon is displayed when you click in a field that supports a configuration property and a configuration property of the same type has already been configured for the project.

**Parent topic:** [SAP activities](#)

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## Downloading and installing the SAP Jar Files and DLLs

To connect to an SAP system from studio, you must install SAP DLLs and jar files onto your Windows development machine. You must have the SAP login credentials to enter the SAP Support Portal and download the files.

### About this task

To download and install the SAP jar files and DLLs:

1. Contact SAP Technical Support to obtain the compressed files for the following SAP Components:

- o **SAP JCo - based on the platform on which studio is running.**
- o **SAP Java IDoc Class Library**

Note: Latest version of JCo jar available: 3.0.14, IDoc version 3.0.12.

2. Uncompress the SAP JCo compressed file:

- o Double-click the sapjidoc30P\_x-1000xxxx.zip file.
- o Use the decompression tool to extract the contents of the compressed file to a temporary directory. This compressed file contains another compressed file sapjco3- NTintel-3.0.x.zip. Extract this compressed file to a temporary directory, for example: C:\temp\sapjco3-NTintel-3.0.x. This directory contains the required libraries sapjco3.jar and sapjco3.dll.

3. Uncompress the SAP IDoc JCo compressed file:
  - o Double-click the sapjidoc30P\_x-1000xxxx.zip file.
  - o Use the decompression tool to extract the contents of the compressed file to a temporary directory, for example, C:\temp\sapjidoc30P\_x-1000xxxx. This directory contains the required library sapidoc3.jar.

Note: If you are using Cast Iron Studio version 6.4 or earlier versions, you must download and install the 32 bit SAP libraries. For Cast Iron version 7.0 onwards, you must download and install the 64 bit SAP libraries.

## Procedure

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1. Open studio, select Tools > Install Module Providers.
2. When the Add Providers dialog box is displayed, click the plus (+) button beneath SAP Connector.

A text entry field and a Browse button is displayed.
3. Click Browse, and use the browse dialog box to locate and select the sapjco3.jar file.
4. Click Open to import the jar file contents.
5. Click the next available plus (+) button to add the sapidoc3.jar and sapjco3.dll files.
6. When the jar file is listed in the Add Providers dialog box, click OK.

## Results

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A prompt is displayed to restart studio and activate the changes.

## What to do next

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You can now create SAP endpoints and orchestrations.

**Parent topic:** [SAP activities](#)

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# Configuring Single Sign-on (SSO) and Secure Network Communications (SNC) for SAP connector

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## Before you begin

---

In Cast Iron version 6.3.0.2 and later versions, you can connect to SAP through the SAP connector in the following ways:

- By providing user name and password
- By providing an SSO ticket (for Invoke RFC, Invoke BAPI, and Send IDOC activities only).

Note: Enable the SAP server for SSO. The SAP SSO ticket can be obtained by logging into the SAP system using a web browser and fetching the value of session cookie named MYSAPSSO2.
- Using the SNC feature, by providing the SNC name, the SNC partner name, and one of the following:
  - o X509 certificate
  - o X509 certificate, username (user of the certificate), and a dummy password
  - o User name and password

Note: Enable the SAP server for SNC.

## Procedure

---

For SNC:

1. Add SECUDIR as a system variable and set it to the PATH: WHERE SECUDIR = <PATH OF EXTRACTED SAP CRYPTO lib file>.
2. Add the system credentials to the .pse file: sapgenpse seclogin -p <PSE LOCATION>.pse -o <SYSTEM USERNAME>.
3. In Cast Iron Studio, go to Tools > Install Module Providers and upload sapcrypto.dll file of the respective version of studio (32 bit/64 bit) to the SAP connector.
4. In the endpoint page, complete the following:
  - a. Specify the distinguished name for client PSE (created while generating client PSE) in the SNC name field.
  - b. Specify the distinguished name for client PSE (created while generating client PSE) in the SNC partner field.
  - c. Specify the level of security in SNC security level. Security level support is provided by Cryptographic Library and all security levels may not be supported by a particular library file. Select the required option from the drop-down list.
  - d. Optional: Specify the X509 certificate to be used as the log on ticket, if required. Remove the extra lines such that the certificate is in a single line.
  - e. Complete the rest of the fields and click Test Connection.

**Parent topic:** [SAP activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP\\_configuring\\_SNC.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP_configuring_SNC.html)

## SAP Invoke BAPI activity

---

Use the SAP Invoke BAPI activity to call a Business Object Method (BAPI), that is remotely enabled at the specified SAP Endpoint, during run time.

Note: To connect to the SAP System from Studio, you must download and install the SAP Jar files and DLLs onto your Windows development machine. For more information, see [Downloading and installing the SAP Jar Files and DLLs](#).

### Adding a SAP Invoke BAPI activity in the orchestration

---

1. [Create](#) or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the SAP folder.
3. Drag the SAP Invoke BAPI activity onto the orchestration.
4. Select the activity. The Checklist is displayed.

### Creating, selecting, or editing a SAP endpoint

---

1. Click Pick Endpoint task from the Checklist and select one of the following actions:
  - Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK. Go to the Configuring the activity procedure.
  - Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint pane is displayed.
  - Create a new endpoint: Select New. The Create Endpoint panel is displayed.
2. [Create or Edit a SAP endpoint](#).

### Configuring the activity

---

1. Select the Configure task from the Checklist. The Configure panel is displayed.
2. In the Object Name field click Browse.... The BAPI List dialog box is displayed.
3. Search for a Business Object. Click a Business Object in the list and enter the starting characters of the Business Object name.
4. Expand the Business Object to view the associated BAPI methods.
5. Select a Business Object and Method and click OK.
6. Select one of the following Transaction Options:

- o Do Nothing (Transaction handled by BAPI directly) - During run time, the Integration Appliance calling the BAPI does no transaction processing. If a transaction is associated with the BAPI, the BAPI must completely handle the transaction
- o Commit transaction after completion - During run time, the Integration Appliance calls the BAPI and waits for a return message from the SAP System. The return code of the message returned from the SAP System determines if the Integration Appliance sends another message requesting that the SAP System to commit or rollback the transaction:
  - If the return code passed back from the BAPI indicates success, the Integration Appliance sends another message requesting that the SAP System commit the transaction and immediately starts processing the next activity in the orchestration.
  - If the return code passed back from the BAPI indicates failure, the Integration Appliance sends a rollback request to the SAP System and immediately starts processing the next activity in the orchestration.
- o Commit transaction and wait upon completion - During run time, the Integration Appliance invokes the BAPI and waits for a return message from the SAP System. The return code of the message returned from the SAP System determines if the Integration Appliance sends another message requesting that the SAP System to commit or rollback the transaction:
  - If the return code passed back from the BAPI indicates success, the Integration Appliance sends another message requesting that the SAP System commit the transaction. The orchestration waits until the SAP System sends a second message indicating that the transaction has been committed before processing the next activity in the orchestration.
  - If the return code passed back from the BAPI indicates failure, the Integration Appliance sends a rollback request to the SAP System. The orchestration waits until the SAP System sends a second message indicating that the rollback of the transaction has occurred before processing the next activity in the orchestration.

## Specifying the retry options

---

1. Select the Retry task from the Checklist. The Retry panel is displayed.
2. Configure the retry options for connecting to an SAP System. The following table describes the retry options for connecting to an SAP System:

Retry options	Description
1) Wait --- seconds between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the SAP System.
2) Try to connect --- times before failing.	Specifies the maximum number of times the Integration Appliance attempts to establish a connection to the SAP System before issuing an error and stopping the processing of the current orchestration job. If you deploy an orchestration that contains an SAP Invoke BAPI activity and the Integration Appliance cannot connect to the specified SAP System, the Integration Appliance logs the connections errors as warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.

## Mapping the inputs of the activity

---

- Select the Map Inputs task in the Checklist. The XML Schemas generated from the input parameters of the BAPI are displayed as nodes under the request input parameter in the To Activity panel. In addition if the BAPI contains tables, the XML Schemas representing the tables of the BAPI , are displayed as nodes under the request input parameter in the To Activity panel.

The SAP connector also supports dynamic endpoint connection to a different SAP system. During run time, add optional parameters in `sapConnectionProperties` of map inputs, if you want to dynamically connect to an SAP system other than the one configured in the endpoint panel, if you want to connect to the same SAP system with a different user name and password other than the fields used in the endpoint panel, or if you want a different SSO token other than the one added in the endpoint panel. The parameters of `sapConnectionProperties` are described in the following table:

Table 1. Connection properties

Optional parameter	Description
sapConnectionProperties parameters	
hostName	Specifies the IP Address or the machine name that contains the SAP system.
systemNumber	Specifies the number that identifies the specific instance of the SAP system that Studio should connect to. Your SAP administrator must supply this information.
client	Specifies a number that identifies Studio and the Integration Appliance as a client for the SAP system. Your SAP administrator must supply this information.
language	Specifies the message language option for SAP. For example, EN is the ISO code for English.
basicAuthentication parameters	
username	Specifies the user name to use when connecting to the SAP system.
password	Specifies the password to the user name when connecting to the SAP system.
ssoAuthentication parameters	
ssotoken	Specifies the single sign-on (SSO) token.
sncAuthentication parameters	
sncmode	Specifies if the Secure Network Connections (SNC) mode is enabled.
sncname	Specifies the distinguished name of the SNC connection.
partner	Specifies the distinguished name of the SNC partner.
qop	Specifies the level of security of SNC.
X509 Certificate	Specifies the X509 certificate to be used as the logon ticket. This field is optional only if Username/Password based authentication is used with SNC.
connectionPool parameters	
maximumConnections	Specifies the additional SAP connections, up to the specified amount, which the Integration Appliance opens based on the message load.
maxIdleTime	Specifies the number of minutes that a SAP connection can be open and idle before being closed by the Integration Appliance.

- Create a map between orchestration variables and the BAPI input parameters and tables. See [Creating a map](#) for general instructions on mapping.

Values must be provided at run time for any mandatory elements of the BAPI input parameters or tables. A value can be provided by specifying a default value for element or by linking the element with input node. During run time if no value is provided for a mandatory element, the activity throws an exception during run time which is reported by the Web Management Console (WMC). If a value is not provided at run time for an optional element of the BAPI input parameters or tables, no exception is thrown during run time.

## Mapping the outputs of the activity

- Select the Map Outputs task in the Checklist. The XML Schema generated from return types of the BAPI display as nodes under the response output parameter in the From Activity panel. In addition, if the BAPI contains tables, the XML Schemas representing the tables are displayed as nodes under the response node in the From Activity.
- Create a map between the BAPI output parameters and tables and orchestration variables. See [Creating a map](#) for general instructions on mapping.

## Note about deploying a SAP orchestration

---

Before you can deploy an orchestration with SAP activities using the WMC, the Integration Appliance must first be able to establish a connection to the SAP System. If the Integration Appliance is unable to establish the connection to the SAP System, the orchestration is not deployed.

**Parent topic:** [SAP activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP\\_Invoke\\_BAPI\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP_Invoke_BAPI_Activity.html)

## SAP Invoke RFC activity

---

Use the SAP Invoke RFC activity to call a Remote Function Call (RFC), that is remotely enabled at the specified SAP endpoint, during run time.

Note: To connect to the SAP System from Studio, you must download and install the SAP Jar files and DLLs onto your Window's development machine. For more information, see [Downloading and installing the SAP Jar Files and DLLs](#).

### Adding a SAP Invoke RFC activity to the orchestration

---

1. [Create](#) or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the SAP folder.
3. Drag the SAP Invoke RFC activity onto the orchestration.
4. Select the activity. The Checklist is displayed.

### Creating, selecting, or editing a SAP endpoint

---

1. Click Pick Endpoint task from the Checklist and choose from one of the following actions:
  - o Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK. Go to the Configuring the activity procedure.
  - o Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint panel is displayed.
  - o Create a new endpoint: Select New. The Create Endpoint panel is displayed.
2. [Create or Edit a SAP endpoint](#).

### Configuring the activity

---

1. Select the Configure task from the Checklist. The Configure panel is displayed.
2. In the RFC Name field, click Browse.... The RFC List dialog box is displayed.
3. In the RFC Search Function field, enter a combination of characters and the \* wildcard character to find the desired RFC name as shown in the following examples:
  - o AB\* â€“ Finds all the RFC whose names begin with the AB prefix.
  - o AB\*TRANSACTION â€“ Finds all the RFC whose begin with the AB prefix and end with the string: TRANSACTION.

The SAP system is interrogated and the RFC names that match the wildcard expression are listed in the Matching SAP Functions table.

4. From the Matching SAP Functions table, select one of the SAP Functions and click OK.

### Specifying the retry options

---

1. Select the Retry task from the Checklist. The Retry panel is displayed.

2. Configure the retry options for connecting to an SAP System. The following table describes the retry options for connecting to an SAP System:

Retry options	Description
1) Wait --- seconds between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the SAP System.
2) Try to connect --- times before failing.	Specifies the maximum number of times the Integration Appliance attempts to establish a connection to the SAP System before issuing an error and stopping the processing of the current orchestration job. If you deploy an orchestration that contains an SAP Invoke RFC activity and the Integration Appliance cannot connect to the specified SAP System, the Integration Appliance logs the connection errors as warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.

## Mapping the inputs of the activity

- Select the Map Inputs task in the Checklist. The XML Schemas generated from the input parameters of the RFC are displayed as nodes under the request input parameter in the To Activity pane. In addition if the RFC contains tables, the XML Schemas representing the tables of the RFC, are displayed as nodes under the request input parameter in the To Activity panel.
- Create a map between orchestration variables and the RFC input parameters and tables. See [Creating a map](#) for general instructions on mapping.

Values must be provided at run time for any mandatory elements of the RFC input parameters or tables. A value can be provided by specifying a default value for the element or by linking the element with input node. During run time if no value is provided for a mandatory element, the activity throws an exception during run time which is reported by the Web Management Console (WMC). If a value is not provided at run time for an optional element of the RFC input parameters or tables, no exception is thrown during run time.

### Transaction Options:

- In the Map Inputs of the activity, right click the To Activity section and select Show Optional Parameters. A variable `transactionOptions` appears in the map input. This property is available from Cast Iron Studio version 6.1.0.12 only.
- Select one of the following values:  
Note: If you do not set any value for the `transactionOptions` property, the `COMMIT_HANDLED_BY_RFC` value will be used.

Table 1.

Value	Description
<code>COMMIT_HANDLED_BY_RFC</code>	The commit of RFC is taken care by the RFC itself. The connector does not do any explicit commit calls.

Value	Description
COMMIT_TRANS ACTION_AFTER_COMPLETION	<p>During run time, the SAP connector calls the RFC and waits for a return message from the SAP System. The return code of the message returned by the SAP system determines if the SAP connector sends another call requesting the SAP system to commit or rollback the transaction:</p> <ul style="list-style-type: none"> <li>◦ If the return code passed from the RFC indicates success, the SAP connector makes another call requesting the SAP system to commit the transaction, and immediately starts processing the next activity in the orchestration.</li> <li>◦ If the return code passed from the RFC indicates failure, the SAP connector makes a rollback request to the SAP system, and immediately starts processing the next activity in the orchestration.</li> </ul>
COMMIT_TRANS ACTION_AND_WAIT_UPON_COMPLETION	<p>During run time, the SAP connector invokes the RFC and waits for a return message from the SAP system. The return code of the message returned by the SAP system determines if the SAP connector sends another message requesting the SAP system to commit or rollback the transaction:</p> <ul style="list-style-type: none"> <li>◦ If the return code passed back from the RFC indicates success, the SAP connector makes another call requesting the SAP system to commit the transaction. The orchestration waits until the SAP System sends a second message indicating that the transaction has been committed before processing the next activity in the orchestration.</li> <li>◦ If the return code passed back from the RFC indicates failure, the SAP connector makes a rollback request to the SAP system. The orchestration waits until the SAP system sends a second message indicating that the rollback of the transaction has occurred before processing the next activity in the orchestration.</li> </ul>

3. After the transaction operations are selected, fill in the input data for RFC.

The SAP connector also supports dynamic endpoint connection to a different SAP system. During run time, add optional parameters in `sapConnectionProperties` of map inputs, if you want to dynamically connect to an SAP system other than the one configured in the endpoint panel, if you want to connect to the same SAP system with a different user name and password other than the fields used in the endpoint panel, or if you want a different SSO token other than the one added in the endpoint panel. The parameters of `sapConnectionProperties` are described in the following table:

Table 2. Connection properties

Optional parameter	Description
sapConnectionProperties parameters	
hostName	Specifies the IP Address or the machine name that contains the SAP system.
systemNumber	Specifies the number that identifies the specific instance of the SAP system that Studio should connect to. Your SAP administrator must supply this information.
client	Specifies a number that identifies Studio and the Integration Appliance as a client for the SAP system. Your SAP administrator must supply this information.
language	Specifies the message language option for SAP. For example, EN is the ISO code for English.
basicAuthentication parameters	
username	Specifies the user name to use when connecting to the SAP system.
password	Specifies the password to the user name when connecting to the SAP system.
ssoAuthentication parameters	
ssotoken	Specifies the single sign-on (SSO) token.
sncAuthentication parameters	
sncmode	Specifies if the Secure Network Connections (SNC) mode is enabled.
sncname	Specifies the distinguished name of the SNC connection.
partner	Specifies the distinguished name of the SNC partner.
qop	Specifies the level of security of SNC.
X509 Certificate	Specifies the X509 certificate to be used as the logon ticket. This field is optional only if Username/Password based authentication is used with SNC.
connectionPool parameters	
maximumConnections	Specifies the additional SAP connections, up to the specified amount, which the Integration Appliance opens based on the message load.

Optional parameter	Description
maxIdleTime	Specifies the number of minutes that a SAP connection can be open and idle before being closed by the Integration Appliance.

## Mapping the outputs of the activity

---

1. Select the Map Outputs task in the Checklist. The XML Schema generated from return types of the RFC are displayed as nodes under the request output parameter in the From Activity panel. In addition, if the RFC contains tables, the XML Schemas representing the tables are displayed as nodes under the request node in the From Activity.
2. Create a map between the RFC output parameters and tables and orchestration variables. See [Creating a map](#) for general instructions on mapping.

## Note about Deploying a SAP Orchestration

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Before you can deploy an orchestration with SAP activities using the WMC, the Integration Appliance must first be able to establish a connection to the SAP System. If the Integration Appliance is unable to establish the connection to the SAP System, the orchestration is not deployed.

**Parent topic:** [SAP activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP\\_Invoke\\_RFC\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP_Invoke_RFC_Activity.html)

## SAP Receive IDOC activity

---

Use the SAP Receive IDOC activity to act as a server and listen on the configured SAP endpoint, during run time. The activity receives an IDOC from the specified SAP endpoint and converts it to XML data. The SAP Receive IDOC activity is a starter activity.

If you receive your SAP data directly from the SAP system using an RFC port, you must use the SAP Receive IDOC activity. If you receive your SAP data as a file through a SAP File Port to the SAP system, you must use the Project > Import > SAP IDOC Schema toolbar menu option during design time to generate a Flat File Schema for your IDOC metadata and use the Read Flat File activity to read the SAP data. For more information, see [Generating a Flat File Schema from an IDOC](#).

For the SAP Receive IDOC activity only, you must specify an inbound gateway connection parameters. For more information, see [Creating or editing a SAP endpoint](#).

In order to connect to the SAP System from Studio, you must download and install the SAP Jar files and DLLs on your Windows development machine. For more information, see [Downloading and installing the SAP Jar Files and DLLs](#).

Note: An orchestration that contains an SAP Receive IDOC activity must have persistence enabled. For more information, see [Enabling persistence](#).

## Adding a SAP Receive IDOC activity in the orchestration

---

1. [Create](#) or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the SAP folder.
3. Drag the Receive IDOC activity onto the orchestration.
4. Select the activity. The Checklist is displayed.

## Creating, selecting, or editing a SAP endpoint

---

1. Click Pick Endpoint task from the Checklist and select one of the following actions:
  - o Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.

- b. Select an existing endpoint and click OK. Go to the Configuring the activity procedure.
  - o Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint panel is displayed.
  - o Create a new endpoint: Select New. The Create Endpoint panel is displayed.
2. [Create or Edit a SAP endpoint](#).

## Configuring the activity

---

1. Select the Configure task from the Checklist. The Configure panel is displayed.
2. Click Browse....
3. Select an IDOC row and click OK. The Message Type, IDOC Type, and IDOC Extended Type in the Configure task are populated.

## Mapping the outputs of the activity

---

1. Select the Map Outputs task in the Checklist.

The output parameter of the activity is displayed in the From Activity panel. The XML Schema generated from the selected IDOC Type and IDOC Extended Type becomes the output parameter of the activity.

2. Create a map between the IDOC XML Schema and orchestration variables. See [Creating a map](#) for general instructions on mapping.

## Note about Deploying a SAP Orchestration

---

Before you can deploy an orchestration with SAP activities using the Web Management Console, the Integration Appliance must first be able to establish a connection to the SAP System. If the Integration Appliance is unable to establish the connection to the SAP System, the orchestration is not deployed.

**Parent topic:** [SAP activities](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP\\_Receive\\_IDOC\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP_Receive_IDOC_Activity.html)

## SAP Send IDOC activity

---

Use the SAP Send IDOC activity to send an IDOC to the specified SAP endpoint, during run time.

If you send your SAP data directly to the SAP system using an RFC port, you must use the SAP Send IDOC activity. If you send your SAP data as a file through a SAP File Port to the SAP system, you must use the Project > Import > SAP IDOC Schema toolbar menu option during design time to generate a Flat File Schema for your IDOC metadata and use the Write Flat File activity to write the SAP data. For more information, see [Generating a Flat File Schema from an IDOC](#).

To connect to the SAP System from Studio, you must download and install the SAP Jar files and DLLs on your Window's development machine. For more information, see [Downloading and installing the SAP Jar Files and DLLs](#).

During run time, if the SAP Send IDOC activity processes two instances of an IDOC, where both instances have the same IDOC number, the SAP Send IDOC activity appends the data segment of the second instance to the first instance.

Note: An orchestration that contains a SAP Send IDOC activity must have persistence enabled. For more information, see [Enabling persistence](#).

The steps for adding and configuring a SAP Send IDOC activity to an orchestration are described in the following procedures:

- [Adding a SAP Send IDOC activity to the orchestration](#)
- [Creating, selecting, or editing a SAP endpoint](#)
- [Configuring the activity](#)

- Specifying the retry options
- Mapping the inputs of the activity

## Adding a SAP Send IDOC activity to the orchestration

---

1. [Create](#) or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the SAP folder.
3. Drag the Send IDOC activity onto the orchestration.
4. Select the activity. The Checklist is displayed.

## Creating, selecting, or editing a SAP endpoint

---

1. Click Pick Endpoint task from the Checklist and select one of the following actions:
  - Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK. Go to the [Configuring the activity](#) procedure.
  - Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint panel is displayed.
  - Create a new endpoint: Select New. The Create Endpoint panel is displayed.
2. [Create or Edit a SAP endpoint](#).

## Configuring the activity

---

1. Select the Configure task from the Checklist. The Configure panel is displayed.
2. Click Browse....
3. Select an IDOC row and click OK. The Message Type, IDOC Type, and IDOC Extended Type in the Configure task are populated.

## Specifying the retry options

---

1. Select the Retry task from the Checklist. The Retry panel is displayed.
2. Configure the retry options for connecting to an SAP System. The following table describes the retry options for connecting to an SAP System:

Retry options	Description
1) Wait --- seconds between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the SAP System.
2) Try to connect --- times	Specifies the maximum number of times the Integration Appliance attempts to establish a connection to the SAP System before issuing an error and stopping the processing of the current orchestration job. If you deploy an orchestration that contains an SAP Send IDOC activity and the Integration Appliance cannot connect to the specified SAP System, the Integration Appliance logs the connection errors as warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.

## Mapping the inputs of the activity

1. Select the Map Inputs task in the Checklist. The input parameter of the activity are displayed in the To Activity panel. The XML Schema generated from selected IDOC Type and IDOC Extended Type becomes the input parameter of the activity.
2. Right-click the To Activity section and select Show Optional Parameters.

The SAP connector also supports dynamic endpoint connection to a different SAP system. During run time, add optional parameters in `sapConnectionProperties` of map inputs, if you want to dynamically connect to an SAP system other than the one configured in the endpoint panel, if you want to connect to the same SAP system with a different user name and password other than the fields used in the endpoint panel, or if you want a different SSO token other than the one added in the endpoint panel. The parameters of `sapConnectionProperties` are described in the following table:

Table 1. Connection properties

Optional parameter	Description
sapConnectionProperties parameters	
hostName	Specifies the IP Address or the machine name that contains the SAP system.
systemNumber	Specifies the number that identifies the specific instance of the SAP system that Studio should connect to. Your SAP administrator must supply this information.
client	Specifies a number that identifies Studio and the Integration Appliance as a client for the SAP system. Your SAP administrator must supply this information.
language	Specifies the message language option for SAP. For example, EN is the ISO code for English.
basicAuthentication parameters	
username	Specifies the user name to use when connecting to the SAP system.
password	Specifies the password to the user name when connecting to the SAP system.
ssoAuthentication parameters	
ssotoken	Specifies the single sign-on (SSO) token.
sncAuthentication parameters	
sncmode	Specifies if the Secure Network Connections (SNC) mode is enabled.
sncname	Specifies the distinguished name of the SNC connection.
partner	Specifies the distinguished name of the SNC partner.
qop	Specifies the level of security of SNC.
X509 Certificate	Specifies the X509 certificate to be used as the logon ticket. This field is optional only if Username/Password based authentication is used with SNC.
connectionPool parameters	
maximumConnections	Specifies the additional SAP connections, up to the specified amount, which the Integration Appliance opens based on the message load.
maxIdleTime	Specifies the number of minutes that a SAP connection can be open and idle before being closed by the Integration Appliance.

3. Create a map between orchestration variables and the IDOC input parameters and tables. See [Creating a map](#) for general instructions on mapping.

## Note about Deploying a SAP Orchestration

Before you can deploy an orchestration with SAP activities using the Web Management Console, the Integration Appliance must first be able to establish a connection to the SAP System. If the Integration Appliance is unable to establish the connection to the SAP System, the orchestration is not deployed.

**Parent topic:** [SAP activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP\\_Send\\_IDOC\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP_Send_IDOC_Activity.html)

## SAP Receive RFC activity

---

Use the SAP Receive RFC activity to act as a server and listen on the configured SAP endpoint, during run time. The activity receives RFC from the specified SAP endpoint and converts it to XML data. The SAP Receive RFC activity is a starter activity. This activity can be configured in both synchronous and asynchronous mode.

For the SAP Receive RFC activity, you must specify the inbound gateway connection parameters. The Receive RFC activity accepts requests only from the configured Program ID in the endpoint. For more information see [Creating or editing a SAP endpoint](#).

To connect to the SAP system from Studio, you must download and install the SAP Jar files and DLLs on your Window's development machine. For more information, see [Downloading and installing the SAP Jar Files and DLLs](#).

Note: An orchestration that contains an SAP Receive RFC activity must have persistence enabled to run in asynchronous mode. For more information, see [Enabling persistence](#).

### Adding a SAP Receive RFC activity to the orchestration

---

1. [Create](#) or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the SAP folder.
3. Drag the Receive RFC activity onto the orchestration.
4. Select the activity. The Checklist is displayed.

### Creating, selecting, or editing a SAP endpoint

---

1. Click Pick Endpoint task from the Checklist and choose from one of the following actions:
  - o Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK. Go to the Configuring the activity procedure.
  - o Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint panel is displayed.
  - o Create a new endpoint: Select New. The Create Endpoint panel is displayed.
2. [Create or Edit a SAP endpoint](#).

### Configuring the activity

---

1. Select the Configure task from the Checklist. The Configure panel is displayed.
2. In the RFC Name field, click Browse.... The RFC List dialog box is displayed.
3. In the RFC Search Pattern field, enter a combination of characters and the \* wildcard character to find the desired RFC name as shown in the following examples:
  - o AB\* Finds all the RFC names that begin with the AB prefix.
  - o AB\*TRANSACTION Finds all the RFC names that begin with the AB prefix and end with the string: TRANSACTION.

The SAP system is interrogated and the RFC names that match the wildcard expression are listed in the Matching SAP Functions table.

4. In the Options panel, you can either select the Synchronous mode check box or clear it. The processing can be handled either synchronously or asynchronously. By default, the Receive RFC activity is configured to the asynchronous mode.
  - o **Synchronous mode** - Both SAP and Cast Iron (the SAP Receive RFC activity) must be available during processing. SAP sends an RFC request to Cast Iron and waits for a response from the Receive RFC activity.
  - o **Asynchronous mode** - The SAP Receive RFC activity need not be available when SAP invokes the function call. SAP sends an RFC request to Cast Iron and does not wait for a response from the Receive RFC activity.

- From the Matching SAP Functions table, select one of the SAP Functions and click OK.

## Mapping the outputs of the activity

---

- Select the Map Outputs task in the Checklist. The output parameter of the activity is displayed in the From Activity panel. The XML Schema generated from the selected RFC becomes the output parameter of the activity.
- Create a map between the RFC output parameters and tables and orchestration variables. See [Creating a map](#) for general instructions on mapping.

## Note about Deploying a SAP Orchestration

---

Before you can deploy an orchestration with SAP activities using the WMC, the Integration Appliance must first be able to establish a connection to the SAP System. If the Integration Appliance is unable to establish the connection to the SAP System, the orchestration is not deployed.

**Parent topic:** [SAP activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP\\_Receive\\_RFC\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP_Receive_RFC_Activity.html)

## SAP Send RFC Response activity

---

The SAP **Send RFC Response** activity sends a reply back to the sender (SAP) of the SAP Receive RFC request.

The **Send RFC Response** activity must be used in conjunction with a **Receive RFC** activity in an orchestration. If you add a **Send RFC Response** activity to orchestration, you must select the Synchronous mode check box in the **Configure** task of the **Receive RFC** activity.

## Adding a Send RFC Response activity to the orchestration

---

- Create or open an orchestration. A graphical representation of the orchestration is displayed.
- Select the Activities tab and expand the SAP folder.
- Drag the **Send RFC Response** activity onto the orchestration.
- Select the activity. The **Checklist** is displayed with the **Configure** task active in the properties pane. The properties pane is located below the graphical representation of the orchestration.

## Configuring the activity

---

- Select the **Configure** task from the **Checklist**. The Configure pane is displayed.
- Configure all the fields and check boxes in this pane as described in the following table:

Table 1.

Field	Description
To	Specifies the SAP Receive RFC activity associated with this Send RFC Response activity. During run time, the associated Receive RFC activity receives the request from SAP, processes the request, and sends the output to Send RFC Response. The Send RFC Response activity sends the response back to SAP. Note: This field gets populated only if you select the Synchronous mode check box in the <b>Configure</b> task of the SAP <b>Receive RFC</b> activity.

**Parent topic:** [SAP activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP\\_Send\\_Response\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP_Send_Response_Activity.html)

## Troubleshooting and support

Troubleshooting techniques and self-help information help you identify and solve problems quickly. This topic provides potential solutions for issues you would have with the SAP connector.

## Getting EDI\_DC40 IDOC control record structure with WebSphere Cast Iron SAP Connector

**EDI\_DC40** is a standard SAP structure used to store IDoc Control Record for Interface to External System information. With the SAP connector using non-Unicode SAP server as endpoint in WebSphere Cast Iron Studio version 7002 for the Receive IDoc and Send IDoc activities, supports Control record name as **EDI\_DC40**.

Customer who are getting the EDI\_DC as their standard structure name, are requested to use the latest version of 7501/7510 Studio and reconfigure the object in their orchestration and map it accordingly.

### **Older behavior:**

With the Old Behavior for non-Unicode machine the control record name was EDI\_DC instead of EDI\_DC40.

```
-ALEREQ01
|_SAPTransactorID
|_qRECQueueName
|_IDOC
|_@Begin
|_EDI_DC
    |_Segment
        |_TABNAM
        |_MANDT
æ|æ|æ|
æ|æ|æ|
```

## New behavior:

With the new behavior for both Unicode and non-Unicode SAP server, the control record name will be EDI\_DC40.

```
-ALEREQ01
|_SAPTransactorID
|_qRECQueueName
|_IDOC
|_@Begin
|_EDI_DC40
    |_Segment
    |_TABNAM
    |_MANDT
â€¢â€¢â€¢
â€¢â€¢â€¢
```

## Dependency JCo Jar files - Version Specific Information

Install and use the latest patch level of the SAP Java Connector 3.0. Latest version of JCo jar available: 3.0.14, IDoc version 3.0.12.

You need to have these 3 files: sapico3.jar, sapico3.dll (for Windows) or sapico3.so (for Appliance), and sapidoc3.jar.

For downloading SAP JCo jar (2 files), follow these steps with specific to version:

- Download latest the SAP Java Connector 3.0.14 from the SAP Service Marketplace at <http://service.sap.com/connectors>. You will find the download package with the latest patch level for various platform by navigating to SAP Java Connector > Tools & Services > Download SAP JCo Release 3.0. An installation guide is included in the download archive.
    - For Studio 32 bit Version, download the JCo jar zip file under Microsoft Windows and Windows Server > 32bit for 32 bit version of WebSphere Cast Iron Studio.

- For Studio 64 bit Version, download the JCo jar zip file under Microsoft Windows and Windows Server > 64bit x86 for 64 bit version of WebSphere Cast Iron Studio.
- For WebSphere Cast Iron Appliance, download the JCo jar zip file under Linux (for Intel compatible processors)> 64bit x86 for Appliance.

For downloading SAP IDoc jar (1 file), follow these steps with specific to version:

- Download latest the SAP Java Connector 3.0.14 from the SAP Service Marketplace at <http://service.sap.com/connectors>. You will find the download package with the latest patch level for various platform by navigating to SAP Java Connector > Tools & Services > SAP Java IDoc Class Library.
  - For all platforms, SAP Java IDoc Class Library 3.0.12 zip file will contain the SAP IDoc jar file.

## **Exception thrown when trying to browse for IDoc/BAPI/RFC of an orchestration (new/existing) for 6.1.0.15 studio projects in later studio versions**

---

### **Problem:**

Null point exception is thrown when a 6.1.0.15 studio project is opened in any other later versions of studio and when a browse for IDoc/BAPI/RFC is done in a new or an existing orchestrations.

Error shown in studio error.log file:

```
WARNING: Unable to find entry: ./configuration-wizard -- err msg: Unable to locate entry
./configuration-wizard java.util.concurrent.ExecutionException:
java.lang.NullPointerException at
java.util.concurrent.FutureTask.report(FutureTask.java:134) at
java.util.concurrent.FutureTask.get(FutureTask.java:200) at
com.approuter.studio.gui.FutureBusyView$1.run(FutureBusyView.java:72) at
java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1157) at
java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:627) at
java.lang.Thread.run(Thread.java:798) Caused by: java.lang.NullPointerException at
com.approuter.studio.connectors.sap.WSSapConnection.<init>(WSSapConnection.java:88) at

com.approuter.studio.connectors.sap.endpoint.SapEndpointProjectNode$3.call(SapEndpointProjectNode.java
:345)
at

com.approuter.studio.connectors.sap.endpoint.SapEndpointProjectNode$3.call(SapEndpointProjectNode.java
:342)
at java.util.concurrent.FutureTask.run(FutureTask.java:274)
```

### **Cause:**

Enhanced authentication mechanisms in higher versions of Cast Iron Studio.

### **Solution:**

After opening the project in later version of Studio, navigate to any of the respective Endpoints displayed on the right side of the project tab and come back to the Configure tab of the orchestration.

Now you are enabled with browsing for the IDoc/BAPI/RFC for that orchestration.

## **Supported formats of the date and time field values**

---

The following table describes the supported formats of the date and time field values for all activities of the SAP connector:

Table 1. Formats for Date and Time field values

Field	Input parameter (non-starter activities)	Output parameter (starter and non-starter activities)
Date	yyyy-mm-dd or yyyyMMdd	yyyyMMdd
Time	hh:mm:ss or hhmmss	hhmmss

The supported formats for the input and output parameters of the date and time field values in the SAP connector version 6.0.x and earlier versions are: yyyy-mm-dd and hh:mm:ss, respectively.

## Exception thrown when you deploy orchestrations with Receive RFC and Receive IDOC activities using the same SAP RFC Program ID

**Problem:** When you deploy orchestrations with Receive RFC and Receive IDOC activities with the same SAP RFC Program ID, the following exception is thrown:

```
java.lang.RuntimeException: An attempt to start a JCoIDocServer failed. There might be an existing JCoServer with the same server configuration, else try restarting your server
at
com.ibm.j2ca.sap.inbound.SapJCoServerBuilder.verifyServerConfiguration(SapJCoServerBuilder.java:403)
at com.ibm.j2ca.sap.inbound.SapJCoServerBuilder.createServer(SapJCoServerBuilder.java:96)
at
com.ibm.j2ca.sap.inbound.SAPEventListenerManager.buildEventListener(SAPEventListenerManager.java:149)
at
com.ibm.j2ca.sap.inbound.SAPEventListenerManager.startEventListeners(SAPEventListenerManager.java:132)
at com.ibm.j2ca.sap.inbound.EndpointManager.addEndpoint(EndpointManager.java:68)
at com.ibm.j2ca.sap.SAPResourceAdapter.endpointActivation(SAPResourceAdapter.java:266)
at com.approuter.module.sap.activity.ReceiveIDOCActivity.activate(ReceiveIDOCActivity.java:222)
at com.approuter.maestro.activities.BaseModule.activate(BaseModule.java:296)
at com.approuter.maestro.vm.Program.start(Program.java:796)
at com.approuter.maestro.vm.Kernel.startOrchestration(Kernel.java:704)
at com.approuter.maestro.management.Loader$1.run(Loader.java:461)
at java.lang.Thread.run(Thread.java:736)
```

**Cause:** SAP JCo allows only one instance of JCoServer with a given set of server configuration to run within a Java virtual machine (JVM); another JCoServer with same server configuration cannot run in the same JVM. JCo throws an error indicating that the server cannot be restarted. The Receive IDOC activity and Receive RFC activity do not support the same SAP Program ID used during orchestration.

**Solution:** Ensure that you deploy orchestrations having Receive RFC and Receive IDOC activities using different SAP Program IDs, and create separate end points for IDOC/RFC.

## Recommended configurations to avoid 'Maximum number of 202 conversations exceeded' error

When working with the SAP connector, the following are the recommended configurations to be done if the 'Maximum number of 202 conversations exceeded' error is displayed:

### Error:

```
LOCATION    CPIC (TCP/IP) on local host with Unicode
ERROR       max no of 202 conversations exceeded
TIME        <Day> <Date> <Time> <Year>
RELEASE     720
COMPONENT   CPIC (TCP/IP) with Unicode
```

The following recommendations depend on the load and the number of parallel requests:

1. Reduce the timeout value in the endpoint configuration so that the unused connections are terminated automatically.
2. Configure Cast Iron runtime and SAP gateway to support more RFC connections.
  - a. Set the environment value `CPIC_MAX_CONV` to >100 on Cast Iron runtime. Update `maestro.sh` to set the environment variable. The steps are described in Schedule A.
  - b. Increase the profile value `gw/max_conn` and `gw/max_sys` on the SAP gateway to support many parallel connections. Also, if you run into memory bottlenecks increase the values of `gw/max_overflow_size` and `gw/max_shm_req`.
  - c. Set maximum connections value in SAP endpoint to a realistic value. Depending on the load and parallel requests, appliance either generates or receives.
  - d. Set the number of Server Instance value in SAP endpoint to 10.
3. Sample Values:

```
SAP-Gateway
gw/max_conn=2000, gw/max_sys=1200
gw/max_overflow_size =40000000, gw/max_shm_req = 200 (this is to adjust the memory allocation)
CPIC_MAX_CONV=5000
```

### Schedule A:

1. Log on into the appliance shell (contact IBM support to get appliance shell key in order to log on to the system shell).
2. Go to the `/usr/ironhide/bin` folder. Take a back up of `maestro.sh` (`copy maestro.sh to maestro.sh.old`).

3. Edit `maestro.sh`.

```
move to line
# Version of java currently in use.
if [ -z $JAVA_HOME ]; then
    JAVA_HOME=/usr/java/default
fi
JAVA="${JAVA_HOME}/bin/java"
```

4. Add the following line:

```
## maximum SAP conversations allowed
export CPIC_MAX_CONV=500
```

5. Save and exit.

6. Exit system shell and run the command `system restart` in order to restart the appliance runtime.

## Upgrading JRE from 32 bit to 64 bit

---

**Problem:** If you have an SAP project running on an earlier version of the appliance, when you upgrade the appliance to version 7.0 or later, the SAP projects will not start and the following errors occur:

- Examples of errors thrown in WMC:

```
Start of Orchestration config-
url://SAP_BAPI/1.0/Default/Orchestrations/Orchestration failed:
java.lang.ExceptionInInitializerError: Error
getting the version of the native layer:
java.lang.UnsatisfiedLinkError: sapjco3
(/usr/ironhide/lib/thirdparty/libsapjco3.so:
wrong ELF class: ELFCLASS32).
```

```
Required SAP JCO library is not found.
Install version 3.x SAP JCO library (.dll or .so based on platform)
```

- Examples of exceptions recorded in the `maestro.out` log:

```
java.lang.UnsatisfiedLinkError: sapjco3 (/usr/ironhide/lib/thirdparty/libsapjco3.so: wrong ELF
class: ELFCLASS32)
    at java.lang.ClassLoader.loadLibraryWithPath(ClassLoader.java:1030)
    at java.lang.ClassLoader.loadLibraryWithClassLoader(ClassLoader.java:994)
    at java.lang.System.loadLibrary(System.java:507)
    at com.sap.conn.jco.rt.DefaultJCoRuntime.loadLibrary(DefaultJCoRuntime.java:481)
    at
com.sap.conn.jco.rt.DefaultJCoRuntime.registerNativeMethods(DefaultJCoRuntime.java:347)
    at com.sap.conn.jco.rt.JCoRuntime.registerNatives(JCoRuntime.java:1108)
    at com.sap.conn.rfc.driver.CpicDriver.<clinit>(CpicDriver.java:954)
    at java.lang.J9VMInternals.initializeImpl(Native Method)
    at java.lang.J9VMInternals.initialize(J9VMInternals.java:200)
    at com.sap.conn.rfc.engine.DefaultRfcRuntime.getVersion(DefaultRfcRuntime.java:43)
    at com.sap.conn.rfc.api.RfcApi.RfcGetVersion(RfcApi.java:237)
    at com.sap.conn.jco.rt.MiddlewareJavaRfc.<clinit>(MiddlewareJavaRfc.java:215)
    at java.lang.J9VMInternals.initializeImpl(Native Method)
    at java.lang.J9VMInternals.initialize(J9VMInternals.java:200)
    at com.sap.conn.jco.rt.DefaultJCoRuntime.initialize(DefaultJCoRuntime.java:77)
    at com.sap.conn.jco.rt.JCoRuntimeFactory.<clinit>(JCoRuntimeFactory.java:23)
    at java.lang.J9VMInternals.initializeImpl(Native Method)
    at java.lang.J9VMInternals.initialize(J9VMInternals.java:200)
    at java.lang.Class.forNameImpl(Native Method)
    at java.lang.Class.forName(Class.java:182)
    at com.sap.conn.jco.JCo.createJCo(JCo.java:52)
    at com.sap.conn.jco.JCo.<clinit>(JCo.java:26)
    at java.lang.J9VMInternals.initializeImpl(Native Method)
    at java.lang.J9VMInternals.initialize(J9VMInternals.java:200)
    at java.lang.Class.forNameImpl(Native Method)
    at java.lang.Class.forName(Class.java:182)
    at com.approuter.module.sap.SAPActivator.checkSAPIinstalled(SAPActivator.java:101)
    at
com.approuter.module.sap.activity.SAPBaseActivity.checkSapSetup(SAPBaseActivity.java:498)
    at
com.approuter.module.sap.activity.SAPBaseActivity.generateSchemas(SAPBaseActivity.java:172)
    at com.approuter.module.sap.activity.SapSendRfcData.activate(SapSendRfcData.java:112)
    at com.approuter.maestro.activities.BaseModule.activate(BaseModule.java:301)
    at com.approuter.maestro.vm.Program.start(Program.java:768)
    at com.approuter.maestro.vm.Kernel.startOrchestration(Kernel.java:739)
```

```

        at com.approuter.maestro.management.Loader$1.run(Loader.java:455)
        at java.lang.Thread.run(Thread.java:738)
java.lang.ExceptionInInitializerError: Error getting the version of the native layer:
java.lang.UnsatisfiedLinkError: sapjco3 (/usr/ironhide/lib/thirdparty/libsapjco3.so: wrong ELF
class: ELFCLASS32)
        at com.sap.conn.jco.rt.MiddlewareJavaRfc.<clinit>(MiddlewareJavaRfc.java:227)
        at java.lang.J9VMInternals.initializeImpl(Native Method)
        at java.lang.J9VMInternals.initialize(J9VMInternals.java:200)
        at com.sap.conn.jco.rt.DefaultJCoRuntime.initialize(DefaultJCoRuntime.java:77)
at com.sap.conn.jco.rt.JCoRuntimeFactory.<clinit>(JCoRuntimeFactory.java:23)
        at java.lang.J9VMInternals.initializeImpl(Native Method)
        at java.lang.J9VMInternals.initialize(J9VMInternals.java:200)
        at java.lang.Class.forNameImpl(Native Method)
        at java.lang.Class.forName(Class.java:182)
        at com.sap.conn.jco.JCo.createJCo(JCo.java:52)
        at com.sap.conn.jco.JCo.<clinit>(JCo.java:26)
        at java.lang.J9VMInternals.initializeImpl(Native Method)
        at java.lang.J9VMInternals.initialize(J9VMInternals.java:200)
        at java.lang.Class.forNameImpl(Native Method)
        at java.lang.Class.forName(Class.java:182)
        at com.approuter.module.sap.SAPActivator.checkSAPIinstalled(SAPActivator.java:101)
        at
com.approuter.module.sap.activity.SAPBaseActivity.checkSapSetup(SAPBaseActivity.java:498)
        at
com.approuter.module.sap.activity.SAPBaseActivity.generateSchemas(SAPBaseActivity.java:172)
        at com.approuter.module.sap.activity.SapSendRfcData.activate(SapSendRfcData.java:112)
        at com.approuter.maestro.activities.BaseModule.activate(BaseModule.java:301)
        at com.approuter.maestro.vm.Program.start(Program.java:768)
        at com.approuter.maestro.vm.Kernel.startOrchestration(Kernel.java:739)
        at com.approuter.maestro.management.Loader$1.run(Loader.java:455)
        at java.lang.Thread.run(Thread.java:738)
2013-08-22 09:18:25.013 SEVERE [T-10] [orc:SAP_BAPI/1.0/Default/Orchestrations/Orchestration]
[com.approuter.module.common.util.LogHelper] Required SAP JCO native library is not found.
Install version 3.x SAP JCO native library(.dll or .so based on platform).
java.lang.RuntimeException: java.lang.ExceptionInInitializerError: Error getting the version of
the native layer: java.lang.UnsatisfiedLinkError: sapjco3
(/usr/ironhide/lib/thirdparty/libsapjco3.so: wrong ELF class: ELFCLASS32)
        at
com.approuter.module.sap.activity.SAPBaseActivity.checkSapSetup(SAPBaseActivity.java:509)
        at
com.approuter.module.sap.activity.SAPBaseActivity.generateSchemas(SAPBaseActivity.java:172)
        at com.approuter.module.sap.activity.SapSendRfcData.activate(SapSendRfcData.java:112)
        at com.approuter.maestro.activities.BaseModule.activate(BaseModule.java:301)
        at com.approuter.maestro.vm.Program.start(Program.java:768)
        at com.approuter.maestro.vm.Kernel.startOrchestration(Kernel.java:739)
        at com.approuter.maestro.management.Loader$1.run(Loader.java:455)
        at java.lang.Thread.run(Thread.java:738)
Caused by: java.lang.ExceptionInInitializerError: Error getting the version of the native layer:
java.lang.UnsatisfiedLinkError: sapjco3 (/usr/ironhide/lib/thirdparty/libsapjco3.so: wrong ELF
class: ELFCLASS32)
        at com.sap.conn.jco.rt.MiddlewareJavaRfc.<clinit>(MiddlewareJavaRfc.java:227)
        at java.lang.J9VMInternals.initializeImpl(Native Method)
        at java.lang.J9VMInternals.initialize(J9VMInternals.java:200)
        at com.sap.conn.jco.rt.DefaultJCoRuntime.initialize(DefaultJCoRuntime.java:77)
at com.sap.conn.jco.rt.JCoRuntimeFactory.<clinit>(JCoRuntimeFactory.java:23)
        at java.lang.J9VMInternals.initializeImpl(Native Method)
        at java.lang.J9VMInternals.initialize(J9VMInternals.java:200)
        at java.lang.Class.forNameImpl(Native Method)
        at java.lang.Class.forName(Class.java:182)
        at com.sap.conn.jco.JCo.createJCo(JCo.java:52)
        at com.sap.conn.jco.JCo.<clinit>(JCo.java:26)
        at java.lang.J9VMInternals.initializeImpl(Native Method)
        at java.lang.J9VMInternals.initialize(J9VMInternals.java:200)
        at java.lang.Class.forNameImpl(Native Method)
        at java.lang.Class.forName(Class.java:182)
        at com.approuter.module.sap.SAPActivator.checkSAPIinstalled(SAPActivator.java:101)
        at
com.approuter.module.sap.activity.SAPBaseActivity.checkSapSetup(SAPBaseActivity.java:498)

```

**Cause:**

In the earlier versions of Cast Iron appliance (version 6.4 and earlier versions), 32 bit SAP JCo libraries were used. From Cast Iron appliance version 7.0 onwards, you must use the 64 bit SAP JCo libraries.

**Solution:**

You need to delete the 32 bit SAP JCo libraries, sapjco3.jar and libsapjco3.so, and load the 64 bit SAP JCo libraries.

Upgrading SAP JCo libraries:

In case of any issue after applying 64 bit JCo libraries, contact IBM Technical Support for further assistance.

## Exception thrown when SAP server Host name is not correct

---

**Problem:** When SAP server Host Name is not correct, the below exception is thrown in JCo trace

```
Error: >Thu Jul 16 15:08:00,483< RfcException:  
  Message: Connect to SAP gateway failed  
Connection parameters: TYPE=A DEST=9.184.167.114|100|dev0028.492965 ASHOST=9.184.167.114 SYSNR=10  
CODEPAGE=1100 PCS=1  
LOCATION CPIC (TCP/IP) on local host with Unicode  
ERROR partner '9.184.167.114:3310' not reached  
TIME Thu Jul 16 15:08:00 2015  
RELEASE 721  
COMPONENT NI (network interface)  
VERSION 40  
RC -10  
MODULE nixxi.cpp  
LINE 3283  
DETAIL NiPConnect2:9.184.167.114:3310  
SYSTEM CALL connect  
ERRNO 10060  
ERRNO TEXT WSAETIMEDOUT: Connection timed out  
COUNTER 2  
  return code: RFC_FAILURE (1)  
  error group: 102  
key: RFC_ERROR_COMMUNICATION
```

## Exception thrown when SAP system number is not correct

---

**Problem:** When SAP system number is not correct, the below exception is thrown in JCO trace

```
Error: >Thu Jul 16 15:21:40,738< RfcException:  
  message: Connect to SAP gateway failed  
Connection parameters: TYPE=A DEST=9.184.167.115|100|dev0028.741310 ASHOST=9.184.167.115 SYSNR=15  
CODEPAGE=1100 PCS=1  
LOCATION CPIC (TCP/IP) on local host with Unicode  
ERROR partner '9.184.167.115:3315' not reached  
TIME Thu Jul 16 15:21:40 2015  
RELEASE 721  
COMPONENT NI (network interface)  
VERSION 40  
RC -10  
MODULE nixxi.cpp  
LINE 3283  
DETAIL NiPConnect2: 9.184.167.115:3315  
SYSTEM CALL connect  
ERRNO 10061  
ERRNO TEXT WSAECONNREFUSED: Connection refused  
COUNTER 2  
  return code: RFC_FAILURE (1)  
  error group: 102  
key: RFC_ERROR_COMMUNICATION
```

## Exception thrown when SAP client is not correct

---

**Problem:** When SAP client is not correct, the below exception is thrown

Error log shows as below:

```
Jul 16, 2015 3:25:21 PM com.ibm.j2ca.sap.SAPManagedConnection getJcoConnection  
SEVERE: CWYAP1019E: An exception occurred while connecting to the SAP system. Error message:  
Initialization of destination 9.184.167.115|000|dev0028.145604 failed: Name or password is incorrect  
(repeat logon) on 9.184.167.115 sysnr 10 Explanation=An exception occurred while making the connection  
to the SAP application. The adapter cannot connect using the logon credentials that have been  
provided. UserAction=Refer to the exception message for more details.  
Jul 16, 2015 3:25:21 PM com.approuter.studio.connectors.sap.endpoint.SapEndpointPanel testConnection2  
SEVERE: Unable to connect to the endpoint. Please check the endpoint's information and try again.  
Detail: com.ibm.j2ca.base.exceptions.AuthenticationFailException: Initialization of destination
```

```
9.184.167.115|000|dev0028.145604 failed: Name or password is incorrect (repeat logon) on 9.184.167.115  
sysnr 10
```

JCO trace shows as below:

```
<* RfcReceive >Thu Jul 16 15:25:21,155< failed *>  
>>> [1] <unknown> R/3 <ac: 6> >>> CLOSE (45412733)  
RfcException raised by system [SD1|eccdev1]:  
message: Name or password is incorrect (repeat logon)  
return code: RFC_SYS_EXCEPTION (3)  
error group: 104  
key: RFC_ERROR_SYSTEM_FAILURE*> RfcReceive ...  
handle = 1  
parameter = <null>  
parameter = <null>  
tables = <null>  
>>> RfcClose [1] >Thu Jul 16 15:25:21,158< ...
```

## Exception thrown when SAP User Name is not correct

---

**Problem:** When SAP server user name is not correct, the below exception is thrown

Error log shows as below:

```
Jul 16, 2015 3:33:09 PM com.ibm.j2ca.sap.SAPManagedConnection getJcoConnection  
SEVERE: CWYAP1019E: An exception occurred while connecting to the SAP system. Error message:  
Initialization of destination 9.184.167.115|100|cev0028.789483 failed: Name or password is incorrect  
(repeat logon) on 9.184.167.115 sysnr 10 Explanation=An exception occurred while making the connection  
to the SAP application. The adapter cannot connect using the logon credentials that have been  
provided. UserAction=Refer to the exception message for more details.  
Jul 16, 2015 3:33:09 PM com.approuter.studio.connectors.sap.endpoint.SapEndpointPanel testConnection2  
SEVERE: Unable to connect to the endpoint. Please check the endpoint's information and try again.  
Detail: com.ibm.j2ca.base.exceptions.AuthenticationFailException: Initialization of destination  
9.184.167.115|100|cev0028.789483 failed: Name or password is incorrect (repeat logon) on 9.184.167.115  
sysnr 10
```

JCO trace shows as below:

```
<* RfcReceive >Thu Jul 16 15:33:08,861< failed *>  
>>> [1] <unknown> R/3 <ac: 6> >>> CLOSE (45885421)  
RfcException raised by system [SD1|eccdev1]:  
message: Name or password is incorrect (repeat logon)  
return code: RFC_SYS_EXCEPTION (3)  
error group: 104  
key: RFC_ERROR_SYSTEM_FAILURE*> RfcReceive ...  
handle = 1  
parameter = <null>  
parameter = <null>  
tables = <null>  
>>> RfcClose [1] >Thu Jul 16 15:33:08,863< ...  
<* RfcClose *>
```

## Exception thrown when SAP Server Password is not correct

---

**Problem:** When SAP server password is not correct, the below exception is thrown

Error log shows as below:

```
Jul 16, 2015 3:40:13 PM com.ibm.j2ca.sap.SAPManagedConnection getJcoConnection  
SEVERE: CWYAP1019E: An exception occurred while connecting to the SAP system. Error message:  
Initialization of destination 9.184.167.115|100|dev0028.879503 failed: Name or password is incorrect  
(repeat logon) on 9.184.167.115 sysnr 10 Explanation=An exception occurred while making the connection  
to the SAP application. The adapter cannot connect using the logon credentials that have been  
provided. UserAction=Refer to the exception message for more details.  
Jul 16, 2015 3:40:13 PM com.approuter.studio.connectors.sap.endpoint.SapEndpointPanel testConnection2  
SEVERE: Unable to connect to the endpoint. Please check the endpoint's information and try again.  
Detail: com.ibm.j2ca.base.exceptions.AuthenticationFailException: Initialization of destination  
9.184.167.115|100|dev0028.879503 failed: Name or password is incorrect (repeat logon) on 9.184.167.115  
sysnr 10
```

JCO trace shows as below:

```
>>> [1] <unknown> R/3 <ac: 6> >>> CLOSE (46318530)  
RfcException raised by system [SD1|eccdev1]:
```

```
message: Name or password is incorrect (repeat logon)
return code: RFC_SYS_EXCEPTION (3)
error group: 104
key: RFC_ERROR_SYSTEM_FAILURE*> RfcReceive ...
handle = 1
parameter = <null>
parameter = <null>
tables = <null>
>>> RfcClose [1] >Thu Jul 16 15:40:13,842< ...
<* RfcClose *>
```

**Parent topic:** [SAP activities](#)

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## SAP C4C Activities

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- [Overview of SAP C4C Core Connector](#)

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## Overview of SAP C4C Core Connector

---

The SAP C4C Core Connector enables a connection between Cast Iron and SAP C4C instance. You can perform the following activities using the SAP C4C Core connector:

- Manage
- Query
- Invoke Service (for custom services)

SAP C4C also provides analytics service in REST implementation. There will be a different connector developed to consume the RESTful services and extend the SAP C4C analytics service to end user. This will out of scope for SAP C4C Core services connector.

- [Creating and editing a SAP C4C Core Endpoint](#)
- [Using the Query Activity](#)
- [Using the Manage Activity](#)
- [Using the Invoke Service Activity](#)
- [Specifying the retry options for SAP C4C Core activities](#)
- [X.509 Certificate Authentication for SAP C4C Connector – Points to remember](#)

**Parent topic:** [SAP C4C Activities](#)

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## Creating and editing a SAP C4C Core Endpoint

Endpoints provide the SAP C4C connection information that Studio and the Integration Appliance use to connect with SAP C4C instance. You can create multiple endpoints that refer to separate instances.

Use this task to create or edit SAP C4C Core endpoint.

Any changes you make to SAP C4C Core endpoint, including configuration properties, affects all the orchestrations that use that endpoint, as the edits are global, not local.

1. Drag an activity from **SAP C4C Core** folder in the **Activities** tab to the Orchestration window. The **Summary** panel is displayed.
2. Click **Pick Endpoint** from the Checklist. The Pick Endpoint panel is displayed.
3. Click one of the following buttons:
  1. **Browse** - To select an existing endpoint from **Project Explorer**. The Project Explorer shows all the endpoints in the project available for the activity. When you select an endpoint, the endpoint properties are displayed in the **Pick Endpoint** panel.
  2. **New** - To create a new endpoint. The **Create Endpoint** window opens.
  3. **Edit** - To edit the existing endpoint. The **Edit Endpoint** window opens.
1. Complete the fields defined in the following table:

*Table 1. Connection Details*

Field Name	Description
SAP C4C Core	
Host Name	Specifies the host name of your SAP C4C Endpoint.
Authentication	
Authentication	The authentication dropdown will have only one value as Basic.
User Name	Specifies the authentication user name used for accessing the SAP C4C instance
Password	Specifies the authentication password used for accessing the SAP C4C instance
Security	
Client Certificate Alias Name	Specifies the name of the certificate saved in the local keystore. In case this is checked, then the Basic Authentication is disabled and certificate authentication will take precedence. If certificates are imported in keystore then user will be prompted to check the certificate alias name and specify a valid value for the same.
Protocol Version	The default value is SSL_TLSv2. The another value is TLSv1.2
Connection Timeout	
Timeout after..... seconds when establishing a connection to the endpoint	Specifies the amount of time in seconds before a timeout occurs between the activity making a request on an Endpoint and the time it takes the Endpoint to respond. The default is 300 seconds.
Proxy	
Connect via a Proxy Server	Allows you to enable the proxy connection details.
Authentication	Specifies the Authentication method used to connect to the proxy server. It supports following modes: <ul style="list-style-type: none"> <li>• <b>Basic</b> - Sends the user name and password you specify unencrypted to the server. This authentication schema is the least secure</li> </ul> Do not prefix the user name with the domain
Host Name	Specifies the host name of the proxy server.

Port	Specifies the port number needed to connect to the proxy server.
User Name	Specifies the user name needed to connect to the proxy server.
Password	Specifies the password needed to connect to the proxy server.

1. When finished, click **Test Connection** to confirm that you can connect to SAP C4C instance.
2. Click **OK**.

**Parent topic:** [Overview of SAP C4C Core Connector](#)

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## Using the Query Activity

Query Activity allows you to browse and query standard business objects available in SAP C4C instance using standard services.

Use this task to browse and execute query operations in SAP C4C Core services.

To configure Query SAP C4C Core activity, complete the following steps:

1. In an active orchestration, open the **Activities** tab and expand the **SAP C4C Core** folder contents.
2. Drag the **Query** activity icon onto the orchestration. The Query Activity Checklist is displayed.
3. In the **Checklist**, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the **Checklist**, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant SAP C4C Core endpoint.

**Optional:** You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration. For more information, see [Creating and editing a SAP C4C Core endpoint](#)

1. In the **Checklist**, click **Configure**.
2. In the **Configure** section, click on the **Browse** button and select one of the **Query scenarios** from the list displayed and click on the **Finish** button.

**Optional:** You can refresh the list of scenarios populated here by clicking on Refresh button displayed in the pop-up. If there is any change in the list of scenarios, it will be reflected here.

1. Select any of the **WSDL Operations** displayed for the selected **Query Scenario** (if more than one Operation is displayed). If only one WSDL operation is displayed, select that particular operation.

**Optional:** You can **refresh** list of Operations displayed by clicking on **Refresh** button (present beside **Browse** option). If any modifications are found in the WSDL operations, request/ response schemas, the same will get updated accordingly.

1. In the **Checklist**, click **Retry**. Review the default settings and make the required changes. For more information, see specifying the retry options for SAP C4C Core activity.
2. Click **Map Inputs** from the **Checklist**. The XML Schemas generated from the selected operation of the Query activity are displayed as nodes under the request input parameter in the **To Activity** panel.

The user name and password in the map inputs are populated based on the details provided in the endpoint screen.

1. Create a map between the orchestration variables and the input parameter of the activity.

Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the **Map Outputs** in the **Checklist**. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
2. Create a map between the output parameters and orchestration variables.

You have configured the Query activity.

**Parent topic:** [Overview of SAP C4C Core Connector](#)

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## Using the Manage Activity

---

Manage Activity allows you to create and update standard business objects available in SAP C4C instance using standard services.

Use this task to execute create and update operations in SAP C4C Core services.

To configure Manage SAP C4C Core activity, complete the following steps:

1. In an active orchestration, open the **Activities** tab and expand the **SAP C4C Core** folder contents.
2. Drag the **Manage** activity icon onto the orchestration. The Manage Activity Checklist is displayed.
3. In the **Checklist**, click **Summary**.
4. Review the contents of the **Activity Name** field, and make the required changes.
5. In the **Checklist**, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant SAP C4C Core endpoint.

**Optional:** You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.

For more information, see Creating and editing a SAP C4C Core endpoint

1. In the **Checklist**, click **Configure**.
2. In the **Configure** section, click on the **Browse** button and select one of the **Manage scenarios** from the list displayed and click on the **Finish** button.

**Optional:** You can refresh the list of scenarios populated here by clicking on Refresh button displayed in the pop-up. If there is any change in the list of scenarios, it will be reflected here.

1. Select any of the **WSDL Operations** displayed for the selected **Manage Scenario** (if more than one Operation is displayed). If only one WSDL operation is displayed, select that particular operation.

**Optional:** You can refresh list of Operations displayed by clicking on **Refresh** button (present beside **Browse** option). If any modifications are found in the WSDL operations, request/ response schemas, the same will get updated accordingly.

1. In the **Checklist**, click **Retry**. Review the default settings and make the required changes. For more information, see specifying the retry options for SAP C4C Core activity.
2. Click **Map Inputs** from the **Checklist**. The XML Schemas generated from the selected operation of the Manage activity are displayed as nodes under the request input parameter in the **To Activity** panel.

The user name and password in the map inputs are populated based on the details provided in the endpoint screen.

1. Create a map between the orchestration variables and the input parameter of the activity.

Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the **Map Outputs** in the **Checklist**. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.

2. Create a map between the output parameters and orchestration variables.

You have configured the Manage activity.

**Parent topic:** [Overview of SAP C4C Core Connector](#)

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## Using the Invoke Service Activity

---

Invoke Service Activity allows you to execute custom invoke operations on standard business objects available in SAP C4C instance.

Use this task to execute custom invoke operations in SAP C4C Core services.

To configure Invoke Service SAP C4C Core activity, complete the following steps:

1. In an active orchestration, open the **Activities** tab and expand the **SAP C4C Core** folder contents.
2. Drag the **Invoke Service** activity icon onto the orchestration. The **Invoke Service** Activity Checklist is displayed.
3. In the **Checklist**, click **Summary**.
4. Review the contents of the **Activity** Name field, and make the required changes.
5. In the **Checklist**, click **Pick Endpoint**.
6. Click **Browse** and use the **Project Explorer** dialog box to select the relevant SAP C4C Core endpoint.

**Optional:** You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.

For more information, see [Creating and editing a SAP C4C Core endpoint](#)

1. In the **Checklist**, click **Configure**.
2. In the **Configure** section, there are following two options as below:
  - a. **Browse**: Click on the **Browse** button and select the appropriate WSDL file from the local file system.
  - b. **Add URL**: Click on **Add URL** button and in the pop-up displayed enter WSDL File Name and the WSDL URL (the path to select the WSDL) and click on **Finish** button. Please note that this feature will be used if the WSDL is hosted on a remote server. Do not provide the web service location URL in this field.
3. Select any of the **WSDL Operations** displayed for the selected **Service** (if more than one Operation is displayed). If only one WSDL operation is displayed, select that particular operation.

**Optional:** You can **refresh** list of Operations displayed by clicking on **Refresh** button (present beside **Browse** option). If any modifications are found in the WSDL operations, request/ response schemas, the same will get updated accordingly.

The Refresh option for invoke service activity is for the updating the WSDL Operations for service selected by Add URL option only.

1. In the **Checklist**, click **Retry**. Review the default settings and make the required changes. For more information, see specifying the retry options for SAP C4C Core activity.
2. Click **Map Inputs** from the **Checklist**. The XML Schemas generated from the selected operation of the Invoke Service are displayed as nodes under the request input parameter in the **To Activity** panel.

The user name and password in the map inputs are populated based on the details provided in the endpoint screen.

1. Create a map between the orchestration variables and the input parameter of the activity.

Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

1. Select the **Map Outputs** in the **Checklist**. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.

2. Create a map between the output parameters and orchestration variables.

You have configured the Invoke Service activity.

**Parent topic:** [Overview of SAP C4C Core Connector](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP\\_C4C\\_using\\_the\\_invoke\\_service\\_activ.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP_C4C_using_the_invoke_service_activ.html)

## Specifying the retry options for SAP C4C Core activities

---

Specify the retry options for the **SAP C4C Core** activity.

1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
2. Configure the retry options for connecting to the SAP C4C application. The following table describes the retry options for connecting to the SAP C4C application:

Field	Description
Retry	
1) Wait ___ second(s) between each retry.	Specifies the amount of time (in seconds) that the Integration Appliance waits before trying to establish a connection to the SAP C4C application.
2) Try to connect ___ times before failing.	Specifies the retry count - the maximum number of times the Integration Appliance attempts to establish a connection to the SAP C4C application before issuing an error and stopping the processing of the current orchestration job.  If you deploy an orchestration that contains a Query activity and the Integration Appliance cannot connect to the specified the SAP C4C service, the Integration Appliance logs the connections errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system and orchestration logs and the stops processing the current orchestration job.  For example, the retry count is set to 5. The first, second, third, fourth, and fifth, connection errors are shown in the system log as Warnings. The Integration Appliance logs the sixth connection error as an Error and stops processing the current orchestration job.
Activity Timeout	
3) Time out after ___ seconds when the Endpoint does not respond to a request.	Specifies the amount of time in seconds before a timeout occurs between the activity making a request on an Endpoint and the time it takes the Endpoint to respond. For the SAP C4C activity, the activity timeout is the amount of time that the Integration Appliance waits for a response from the SAP C4C application after attempting to start the SAP C4C service, before the Integration Appliance issues a timeout error.  An activity timeout is different from a connection timeout because an activity timeout occurs after the connection to the Endpoint has been established. A connection timeout specifies the amount of time in seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the Endpoint and the time it takes for the Endpoint to respond to the connection request. Set the connection timeout in SAP C4C Core Endpoint tab.  For more information about connection timeouts, see <a href="#">Creating and editing a SAP C4C Core endpoint</a> .

**Parent topic:** [Overview of SAP C4C Core Connector](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP\\_C4C\\_specifying\\_the\\_retry\\_options\\_f.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP_C4C_specifying_the_retry_options_f.html)

## X.509 Certificate Authentication for SAP C4C Connector â€“ Points to remember

---

Following behavior is seen in your Cast Iron Orchestration when you import a SAP C4C PKCS#12 key pair file in the key store:

1. The certificate imported always takes precedence over basic authentication, and once the key pair file is imported, all the orchestration requests will be authenticated through the certificate authentication.
2. If the imported key pair file is invalid due to the reasons specified above, the test connection and the orchestrations would fail with 401 un-authorized access error. Replacing the invalid file with a newly generated file is a corrective action to be taken in such a scenario.
3. In order to make a communication arrangement with SSL certificate authentication exclusively, it is recommended not to configure any user id and password for the same communication arrangement.

**Parent topic:** [Overview of SAP C4C Core Connector](#)

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### [Feedback | Notices](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP\\_C4C\\_X\\_509\\_certificate\\_authentication.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SAP_C4C_X_509_certificate_authentication.html)

## ServiceMax activities

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- [Creating or editing a ServiceMax endpoint](#)  
ServiceMax endpoints provide information that Studio and the Integration Appliance use to connect to a ServiceMax instance.
- [Configuring ServiceMax activities](#)  
Selecting fields from the ServiceMax object to map is one of the tasks you must complete to configure a ServiceMax activity. For more information about the configuration tasks in the Checklist, see the help topic for the specific ServiceMax activity.
- [Setting ServiceMax configuration properties](#)  
Any changes you make to configuration properties affects all orchestrations that use that endpoint. The edits are global, not local.
- [Specifying the Retry and Time Out parameters for ServiceMax activities](#)  
Specifying the Retry and Time Out parameters is one of the tasks you must complete to configure a ServiceMax activity. The ServiceMax Connector uses an HTTP 1.1 persistent connection over SSL to make all connections to the ServiceMax server. The ServiceMax connector compresses all data for requests and responses using the gzip format.
- [Understanding and setting polling preferences for the ServiceMax connector](#)
- [Poll Updated Objects activity](#)  
This activity polls the ServiceMax Server for objects that have been recently created or updated and returns all the object fields that you selected in the configuration panel to the Integration Appliance. In Studio, configure the polling interval for the activity.
- [Get Updated Objects](#)
- [Poll Deleted Objects activity](#)  
This activity polls the ServiceMax Server for objects that have been recently deleted and returns IDs to the Integration Appliance.
- [Get Deleted Objects](#)  
This activity retrieves the list of individual objects that have been deleted within the specified time-span for the specified object.
- [Create Objects activity](#)  
Use this activity to create one or more ServiceMax objects. In the Activities tab, open the ServiceMax directory to find the Create Objects activity.
- [Update Objects activity](#)  
Use this activity to update existing objects in ServiceMax.

- [Upsert Objects activity](#)  
Use this activity to update existing objects or create new objects in ServiceMax.
- [Delete Objects activity](#)  
Use this activity to delete one or more objects in ServiceMax. While the Salesforce.com API limits the number of objects that it can delete in a single call to 200 objects, the Cast Iron® ServiceMax connector does not have such a limit. You can use the **Delete Objects** activity to delete an unlimited number of objects.
- [Undelete Objects activity](#)
- [Retrieve Objects activity](#)  
Use this activity to retrieve one or more ServiceMax objects of a specified type. While the Salesforce.com API limits the number of objects that it can retrieve in a single call to 2,000 objects, the Cast Iron ServiceMax connector does not have such a limit. You can use the **Retrieve Objects** activity to retrieve an unlimited number of objects.
- [Query Objects activity](#)  
Use the Sforce Object Query Language (SOQL) to run a query on one or more Salesforce.com object types from this activity and return a results set. The Query Objects activity automatically runs a query or queryAll call, followed by continuous queryMore calls for all children and objects returned from Salesforce.com.
- [Configuring the Query Objects activity](#)  
You must create a Sforce Object Search Language (SOSL) query to configure the **Search Objects** activity. The following sections discuss the steps to configure the **Search Objects** activity, create an SOSL query, and provide SOSL syntax rules for IBM® Cast Iron.
- [Search Objects activity](#)
- [Configuring the Search Objects activity](#)  
You must create an Sforce Object Search Language (SOSL) query to configure the **Search Objects** activity.
- [Convert Lead activity](#)  
Use this activity to convert leads into accounts, contacts, or opportunities in ServiceMax. While the Salesforce.com API limits the number of objects that it can convert in a single call to 100 objects, the Cast Iron ServiceMax connector does not have such a limit. You can use the **Convert Lead** activity to convert an unlimited number of objects.
- [Merge Objects Activity](#)  
Use this activity to merge ServiceMax objects into a single record.
- [Get User Information activity](#)  
Use this activity to get user information from the ServiceMax server. In the Activities tab, open the ServiceMax directory to find the Get User Information activity.
- [Get Server Timestamp activity](#)  
Use this activity to get the current time from the ServiceMax server. In the Activities tab, open the ServiceMax directory to find the Get Server Timestamp activity.
- [Send email activity](#)  
Use this activity to send single or multiple emails. The emails include all standard email attributes such as the email address, subject line, and carbon copies.
- [Set password activity](#)  
Use this activity to change the password of a user or `SelfServiceUser` to a value that you specify.
- [Reset password activity](#)  
Use this activity to reset the password of the user to a system-generated value.

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## Creating or editing a ServiceMax endpoint

---

ServiceMax endpoints provide information that Studio and the Integration Appliance use to connect to a ServiceMax instance.

### About this task

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Any changes that you make to the endpoint, including configuration properties, affects all orchestrations that use that endpoint as the edits are global, not local.

### Procedure

---

1. Drag an activity from the ServiceMax folder of the Activities tab onto the orchestration.

The Summary panel is displayed along with a Checklist, which lists the tasks that you must perform to configure the activity.

2. Click Pick Endpoint task from the Checklist. The Pick Endpoint panel opens.

3. Click one of the following options:

- o Browse...: To select an existing endpoint from the Project Explorer. The Project Explorer shows all the endpoints in the project available for the activity. When you select an endpoint, the endpoint properties are displayed in the Pick Endpoint panel. To edit the endpoint properties, click Edit. Go to step 5
- o New: To create a new endpoint. The Create Endpoint window opens. Go to step 5
- o Edit: To edit an existing endpoint. The Edit Endpoint window opens. Go to step 5

Note: Editing an endpoint affects all orchestrations that use that endpoint in the project as the edits are global, not local.

4. In the endpoint window, specify a user name and a password to access a ServiceMax instance.

- a. Type a user name or click the icon to the right of the User Name field to select the configuration property.
- b. Type a password or click the icon to the right of the Password field to select the configuration property.

5. Choose a login option:

Login Options	Description
Login normally	By default, Login is selected. At run time, the Integration Appliance accesses a production instance of ServiceMax.
Login to ServiceMax sandbox	At run time, the Integration Appliance accesses a copy of the production system. You can run tests in the sandbox without affecting production data.
Login to specified Partner WSDL Login URL	At run time, the Integration Appliance accesses the URL you specify in the Login URL field.
Login URL	Only required when you choose the Login to specified Partner WSDL Login URL option.

6. Specify the Connection Timeout parameter. By default, the Integration Appliance times out if it is unable to connect to the ServiceMax endpoint after 300 seconds.

7. To connect through a proxy server, complete the fields that are described in the following table:

Option	Description
Connect via a Proxy Server	Select this check box to enable the fields to connect through a proxy server.
Authentication	Indicates the type of authentication that the Integration Appliance uses when connecting to a proxy server. From the list, select one of the following authentication options: <ul style="list-style-type: none"><li>o <b>Basic</b> - Sends the user name and password you specify unencrypted to the server. This authentication schema is the least secure.</li><li>o <b>NTLM</b> - Requires an instance of NTCredentials to be available for the domain name of the server. This authentication is the most secure authentication option. When you choose the NTLM authentication option, the Integration Appliance authenticates a connection and not a request; therefore, the Integration Appliance authenticates every time that a new connection is made. The connection must remain open during the authentication process. You cannot use NTLM to authenticate with both a proxy and server.</li></ul>
Realm/Domain	If you select the <b>Basic</b> authentication option, specify a realm. If you select the <b>NTLM</b> authentication option, specify a domain.
Host name	Specify the host name of the proxy server.
Port	Specify the port number that is required to connect to the proxy server.
User name	Specify the user name that is required to connect to the proxy server.

Option	Description
<b>Password</b>	Specify the password that is required to connect to the proxy server.

8. Click Test Connection to confirm that the parameters you specified allow the project to access a ServiceMax instance.

Note: When you configure a ServiceMax endpoint to use configuration properties, verify that the configuration properties have valid values. If the configuration property value is invalid or does not exist, the connection test fails.

**Parent topic:** [ServiceMax activities](#)

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## Configuring ServiceMax activities

---

Selecting fields from the ServiceMax object to map is one of the tasks you must complete to configure a ServiceMax activity. For more information about the configuration tasks in the Checklist, see the help topic for the specific ServiceMax activity.

### About this task

---

For some of the fields in the endpoint, you can [create configuration properties](#) to supply the values for these fields. An icon is displayed when you click in a field that supports a configuration property and a configuration property of the same type has already been configured for the project.

### Procedure

---

1. In the Checklist, select Configure. The Configure panel opens.
2. Click Browse... to select a ServiceMax object type. The Choose a ServiceMax Object window shows all the ServiceMax objects that are associated with the Studio activity.
3. Select an object type from the list.  
Note: Custom object types end with a double underscore c ( \_\_c ). For example: *CustomerPriority\_\_c*

Enter a character or string in the Search for an Object Type field and Studio filters the object types and only shows the object types that match the filter criteria. (Optional) Click the refresh icon to retrieve the latest ServiceMax object types.

4. Click OK.

All the fields that are associated with the object type you selected are displayed.

5. In the Object Field Preferences section, select the fields to map.

By default, all fields are selected. You can choose to clear any field that you do not want to show in the map. A global check box allows you to select and clear all fields at once.

Note: The Id field is required for many activities. For these activities, the Id field is disabled and you cannot clear this field.

**Parent topic:** [ServiceMax activities](#)

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## Setting ServiceMax configuration properties

---

Any changes you make to configuration properties affects all orchestrations that use that endpoint. The edits are global, not local.

### Procedure

---

1. Select Project > Configuration Properties. The Configuration Properties window opens.
2. Click the Value field for the servicemax\_password property and type a valid password.
3. Click the Value field for the servicemax\_login property and type a valid ServiceMax login.
4. Click OK.

**Parent topic:** [ServiceMax activities](#)

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## Specifying the Retry and Time Out parameters for ServiceMax activities

---

Specifying the Retry and Time Out parameters is one of the tasks you must complete to configure a ServiceMax activity. The ServiceMax Connector uses an HTTP 1.1 persistent connection over SSL to make all connections to the ServiceMax server. The ServiceMax connector compresses all data for requests and responses using the gzip format.

### About this task

---

The ServiceMax connector uses a single login session for all connections to a ServiceMax endpoint. If a session expires, the connector automatically establishes a new session. The ServiceMax connector does not count the initial attempt to reacquire the session as a retry attempt. The ServiceMax connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails.

For more information about the configuration tasks in the **Checklist**, see the help topic for the specific ServiceMax activity.

### Procedure

---

1. In the Checklist, select Retry. The Retry panel opens.
2. Configure the retry options for connecting to a ServiceMax instance.

The following table describes the retry options for connecting to a ServiceMax instance:

Retry fields	Description
Wait __ seconds between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the ServiceMax instance.  By default, this parameter is set to 30 seconds.
Try to connect __ times before failing. Â	Specifies the maximum number of times that the Integration Appliance attempts to establish a connection to the ServiceMax instance before issuing an error and stopping the processing of the current orchestration job.  By default this parameter is set to 5 attempts.
Activity Timeout field	Description

Retry fields	Description
Time out after __ seconds when the Endpoint does not respond to a request.	<p>Specifies the number of seconds before a time-out occurs between the activity making a request on an endpoint and the time it takes the endpoint to respond.</p> <p>By default this parameter is set to 300 seconds.</p>

**Parent topic:** [ServiceMax activities](#)

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## Understanding and setting polling preferences for the ServiceMax connector

### About this task

The ServiceMax connector contains two activities that poll the ServiceMax server for changes:

- **Poll Deleted Objects** activity
- **Poll Updated Objects** activity

These activities have the following startup behavior:

- For an orchestration that has never been deployed, the baseline time stamp is established when the activity is activated for the first time. The activity uses the baseline time stamp as the start time to poll for changes after the poll interval elapses. After the poll completes, the activity stores the last poll time.
- For a previously deployed orchestration, the activity uses the last poll time and the current time to poll for changes after the poll interval elapses.
- ServiceMax requires at least 60 seconds between each poll. If less than 60 seconds have transpired, then the activity ignores the current polling interval until the next polling interval elapses.

### Procedure

1. In the Checklist, select Polling.

The Polling Preferences panel opens.

2. Set the polling preferences for the following parameters:

Polling Preference	Description
Poll for changes every <i>Where <i> is the polling interval. The interval can be specified in minutes, hours, or days</i>	<p>Specifies the polling interval for which the Integration Appliance polls the ServiceMax Server for objects that have been created or updated since the last poll.</p> <p>By default, the Integration Appliance polls the ServiceMax Server every 5 minutes.</p>
Batch up to <n> objects per orchestration Where <n> is the number of objects in a batch.	<p>Specifies the maximum number of object records per orchestration job, during a polling interval. By default, the Integration Appliance processes one record per orchestration job. Use this preference to tune the performance of the Integration Appliance.</p>

**Parent topic:** [ServiceMax activities](#)

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## Poll Updated Objects activity

---

This activity polls the ServiceMax Server for objects that have been recently created or updated and returns all the object fields that you selected in the configuration panel to the Integration Appliance. In Studio, configure the polling interval for the activity.

### Procedure

---

1. In the Activities tab, open the ServiceMax directory to find the Poll Updated Objects activity.
2. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. Select a ServiceMax endpoint.

For instructions on creating or editing a ServiceMax endpoint, see [Creating or editing a ServiceMax endpoint](#).

4. Configure the activity by choosing a ServiceMax object type and object field preferences.
5. Specify the Polling preferences for the activity.
6. Specify the Retry and Time out parameters for the activity.

### What to do next

---

Map the output of the Poll Updated Objects activity.

**Parent topic:** [ServiceMax activities](#)

## Mapping the output of the Poll Updated Object activity

---

### Procedure

1. In the Checklist, select Map Outputs.

The objects element is displayed in the From Activity panel.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

The output map can have *nillable* field elements have the following behavior:

- o If the field that is being retrieved is null, the Integration Appliance sets the xsi:nil attribute to true in the result.

## Get Updated Objects

---

### Procedure

1. In the Activities tab, open the ServiceMax directory to find the Get Updated Objects activity.
2. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. Select a ServiceMax endpoint.

For instructions on creating or editing a ServiceMax endpoint, see [Creating or editing a ServiceMax endpoint](#).

4. Configure the activity, by choosing a ServiceMax object type and object field preferences.  
You can only select object types and fields that the Integration Appliance can update. The input map contains the object type with elements that correspond to the fields you select during this configuration step.  
Note: The Integration Appliance cannot create auto-number fields.
5. Specify the Retry and Time out parameters for the activity.
6. Map the input of the activity.

The input map consists of an object's input parameter. This parameter consists of a single root element that has a single repeating element, named after the object type you selected, containing all the fields you selected in the Object Field Preferences table.

### What to do next

---

Map the input of the Get Updated Objects.

**Parent topic:** [ServiceMax activities](#)

## Mapping the input of the Get Updated Objects activity

---

### Procedure

1. In the Checklist, select Map Inputs.

The startDateTime element is displayed in the To Activity panel.

2. Optional: Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:
  - o endDateTime
  - o CallOptions
  - o connection
  - o sessionInfo
3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

*Optional* and *nillable* field elements have the following behavior:

- o The Integration Appliance does not update an optional field, when the ServiceMax server does not provide a value for the field.
- o If you set the xsi:nil attribute to true on a nillable field, the Integration Appliance sets the field to null during an update.  
Note: Setting a field to an empty string does not set a field to null.

### What to do next

Map the output of the Get Updated Object activity.

## Mapping the output of the Get Updated Object activity

---

### Procedure

1. In the Checklist, select Map Outputs.

The saveResults element is displayed in the From Activity panel.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

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## Poll Deleted Objects activity

---

This activity polls the ServiceMax Server for objects that have been recently deleted and returns IDs to the Integration Appliance.

### Procedure

---

1. In the Activities tab, open the ServiceMax directory to find the Poll Deleted Objects activity.
2. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. Select a ServiceMax endpoint.

For instructions on creating or editing a ServiceMax endpoint, see [Creating or editing a ServiceMax endpoint](#).

4. Configure the activity by choosing a ServiceMax object type and object field preferences.
5. Specify the Polling preferences for the activity.
6. Specify the Retry and Time out parameters for the activity.

### What to do next

---

Map the output of the Poll Deleted Object activity.

**Parent topic:** [ServiceMax activities](#)

## Mapping the output of the Poll Deleted Object activity

---

### Procedure

1. In the Checklist, select Map Outputs.

The objects element is displayed in the From Activity panel.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

The output map can have *nillable* field elements have the following behavior:

- o If the field being retrieved is null, the Integration Appliance sets the `xsi:nil` attribute to true in the result.
- o If the input ID is not valid or does not represent the object type that you specified, then for the entire object element the Integration Appliance sets `xsi:nil` to true, for that element's position in the result set.

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# Get Deleted Objects

---

This activity retrieves the list of individual objects that have been deleted within the specified time-span for the specified object.

## Procedure

---

1. In the Activities tab, open the ServiceMax directory to find the Get Delete Objects activity.
2. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. Select a ServiceMax endpoint.

For instructions on creating or editing a ServiceMax endpoint, see [Creating or editing a ServiceMax endpoint](#).

4. Specify the Retry and Time out parameters for the activity.

## What to do next

---

Map the input of the Get Deleted Objects activity.

**Parent topic:** [ServiceMax activities](#)

## Mapping the input of the Get Deleted Objects activity

---

### Procedure

1. In the Checklist, select Map Inputs.

The `startDateTime` element is displayed in the To Activity panel.

2. Optional: Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:

- o `endDateTime`
- o `CallOptions`
- o `connection`
- o `sessionInfo`

3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

## What to do next

Map the output of the Get Deleted Objects activity.

## Mapping the output of the Get Deleted Object activity

---

## Procedure

1. In the Checklist, select Map Outputs.

The deleteResults element is displayed in the From Activity panel.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

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## Create Objects activity

---

Use this activity to create one or more ServiceMax objects. In the Activities tab, open the ServiceMax directory to find the Create Objects activity.

## Procedure

1. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

2. Select a ServiceMax endpoint.

For instructions on creating or editing a ServiceMax endpoint, see [Creating or editing a ServiceMax endpoint](#).

3. Configure the activity, by choosing a ServiceMax object type and object field preferences.

4. Specify the Retry and Time out parameters for the activity.

## What to do next

---

Map the inputs of the Create Objects activity.

**Parent topic:** [ServiceMax activities](#)

## [Mapping the input of the Create Objects activity](#)

---

## Procedure

1. In the Checklist, select Map Inputs.

The Objects element is displayed in the To Activity panel. The parameters that are displayed correspond to the structure of the input to the ServiceMax objects operation.

2. Optional: Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:

- AssignmentRuleHeader
- MruHeader
- EmailHeader
- CallOptions
- connection
- sessionInfo

3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

*Optional* and *nillable* field elements have the following behavior:

- o The Integration Appliance does not update an optional field, when the ServiceMax server does not provide a value for the field.
- o If you set the `xsi:nil` attribute to `true` on a *nillable* field, the Integration Appliance sets the field to null during an update.

Note: Setting a field to an empty string does not set a field to null.

## What to do next

Map the output of the Create Objects activity.

### Mapping the output of the Create Object activity

#### Procedure

1. In the Checklist, select Map Outputs.

The `saveResults` element is displayed in the From Activity panel. The parameters that are displayed correspond to the `saveResults` structure, which is returned by the create activity.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

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## Update Objects activity

---

Use this activity to update existing objects in ServiceMax.

### About this task

---

While the Salesforce.com API limits the number of objects that it can update in a single call to 200 objects, the Cast Iron® ServiceMax connector does not have such a limit. You can use the Update Objects activity to update an unlimited number of objects.

Using the Update Objects activity.

#### Procedure

---

1. In the Activities tab, open the ServiceMax directory to find the **Update Objects** activity.

2. Add the activity to an orchestration. The **Checklist** and **Summary** for the activity are displayed beneath the orchestration.

3. Select a ServiceMax endpoint. For instructions on creating or editing a ServiceMax endpoint, see [Creating or editing a ServiceMax endpoint](#).

4. **Configure** the activity by choosing a ServiceMax object type and object field preferences. You can only select object types and fields that the Integration Appliance can update. The input map contains the object type with elements that correspond to the fields you select during this configuration step.  
Note: The Integration Appliance cannot create auto-number fields.
5. **Specify** the **Retry** and **Time out** parameters for the activity.
6. Map the input of the activity. The input map consists of an object's input parameter. This parameter consists of a single root element that has a single repeating element, which is named after the object type you selected, containing all the fields you selected in the Object Field Preferences table.
7. Map the output of the activity.

## Results

---

### Map the input of the Update Objects activity

1. In the **Checklist**, select Map Inputs. The **objects** element is displayed in the To Activity pane.
2. Right-click the default node and choose Show Optional Parameters to show the optional input parameters for this activity:
  - o AssignmentRuleHeader
  - o MruHeader
  - o EmailHeader
  - o CallOptions
  - o connection
  - o sessionInfo
3. Click Select Inputs... and select the input variable or variables for the map. For instructions about creating variables, see [Creating variables](#).
4. As appropriate, map the input parameters to the variable or variables. For mapping instructions, see [Creating a map](#).

Optional and nillable field elements have the following behavior:

- The Integration Appliance does not update an optional field, when the ServiceMax server does not provide a value for the field.
- If you set the `xsi:nil` attribute to true on a nillable field, the Integration Appliance sets the field to null during an update.

Note: Setting a field to an empty string does not set a field to null.

### Map the output of the Update Objects activity

1. In the **Checklist**, select Map Outputs. The **saveResults** element is displayed in the From Activity panel.
2. Click **Select Outputs...** and select the output variable or variables for the map. For instructions about creating variables, see [Creating variables](#).
3. As appropriate, map the output parameters to the variable or variables. For mapping instructions, see [Creating a map](#).

**Parent topic:** [ServiceMax activities](#)

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## Upsert Objects activity

---

Use this activity to update existing objects or create new objects in ServiceMax.

### About this task

The activity uses an external ID, usually a foreign key, to determine whether to update an existing object or create a new object in ServiceMax.

While the Salesforce.com API limits the number of objects that it can create in a single upsert call to 200 objects, the Cast Iron® ServiceMax connector does not have such a limit. You can use the **Upsert Objects** activity to create an unlimited number of objects.

To use the **Upsert Objects** activity:

## Procedure

---

1. In the Activities tab, open the ServiceMax directory to find the **Upsert Objects** activity.
2. Add the activity to an orchestration. The **Checklist** and **Summary** for the activity are displayed beneath the orchestration.
3. Select a ServiceMax endpoint. For instructions on creating or editing a ServiceMax endpoint, see [Creating or editing a ServiceMax endpoint](#).
4. **Configure** the activity, by choosing a ServiceMax object type and object field preferences.  
Note: You can only choose object types that the Integration Appliance can update or create and contain at least one External ID field. When you select the object type, Studio displays the external IDs defined on the object type in the External ID field of the Configure pane. You cannot edit the IDs listed in the External ID list. The external ID that you select becomes a required field, you cannot clear this field from the Object Field Preferences table. If only one external ID is available, Studio automatically selects this field in the Object Field Preferences table.
5. **Specify** the **Retry** and **Time out** parameters for the activity.
6. Map the input of the activity.
7. Map the output of the activity.

## Results

---

### Map the input of the Upsert Objects activity

1. In the **Checklist**, select Map Inputs. The **objects** element is displayed in the To Activity panel.
2. Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:
  - o AssignmentRuleHeader
  - o MruHeader
  - o EmailHeader
  - o CallOptions
  - o connection
  - o sessionInfo
3. Click Select Inputs... and select the input variable or variables for the map. For instructions about creating variables, see [Creating variables](#).
4. As appropriate, map the input parameters to the variable or variables. For mapping instructions, see [Creating a map](#).

This activity supports the following optional input parameters:

- AssignmentRuleHeader
- EmailHeader
- MruHeader

Optional and nullable field elements have the following behavior:

- The Integration Appliance does not update an optional field, when the ServiceMax server does not provide a value for the field.
- If you set the `xsi:nil` attribute to true on a nullable field, the Integration Appliance sets the field to null during an update.  
Note: Setting a field to an empty string does not set a field to null.

### Map the output of the Upsert Objects activity

1. In the **Checklist**, select Map Outputs. The **upsertResults** element is displayed in the From Activity panel.
2. Click Select Outputs... and select the output variable or variables for the map. For instructions about creating variables, see [Creating variables](#).
3. As appropriate, map the output parameters to the variable or variables. For mapping instructions, see [Creating a map](#).

**Parent topic:** [ServiceMax activities](#)

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## Delete Objects activity

---

Use this activity to delete one or more objects in ServiceMax. While the Salesforce.com API limits the number of objects that it can delete in a single call to 200 objects, the Cast Iron® ServiceMax connector does not have such a limit. You can use the **Delete Objects** activity to delete an unlimited number of objects.

## Procedure

---

1. In the Activities tab, open the ServiceMax directory to find the Delete Objects activity.
2. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. Select a ServiceMax endpoint.

For instructions on creating or editing a ServiceMax endpoint, see [Creating or editing a ServiceMax endpoint](#).

4. Specify the Retry and Time out parameters for the activity.

## What to do next

---

Map the input of the Delete Objects activity.

**Parent topic:** [ServiceMax activities](#)

## Mapping the input of the Delete Objects activity

---

### Procedure

1. In the Checklist, select Map Inputs.

The Ids element is displayed in the To Activity panel.

2. Optional: Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:
  - UserTerritoryDeleteHeader
  - CallOptions
  - connection
  - sessionInfo

3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

## What to do next

Map the output of the Delete Object activity.

## Mapping the output of the Delete Object activity

---

### Procedure

1. In the Checklist, select Map Outputs.

The deleteResults element is displayed in the From Activity panel.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

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## Undelete Objects activity

---

### About this task

---

Use this activity to restore one or more objects that you deleted in ServiceMax.

To use the Undelete Objects activity complete the following steps:

### Procedure

---

1. In the Activities tab, open the ServiceMax directory to find the **Undelete Objects** activity. Add the activity to an orchestration. The **Checklist** and **Summary** for the activity are displayed beneath the orchestration.
2. Select a ServiceMax endpoint. For instructions on creating or editing a ServiceMax, see [Creating or editing a ServiceMax endpoint](#).
3. [Specify](#)the Retry and Time out parameters for the activity.
4. Map the input of the activity.
5. Map the output of the activity.

### Results

---

#### Map the input of the Undelete Objects activity

1. In the **Checklist**, select Map Inputs. The **ids** element is displayed in the To Activity panel.
2. Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:
  - o CallOptions
  - o connection
3. Click Select Inputs... and select the input variable or variables for the map. For instructions about creating variables, see [Creating variables](#).
4. As appropriate, map the input parameters to the variable or variables. For mapping instructions, see [Creating a map](#).

#### Map the output of the Undelete Objects activity

1. In the **Checklist**, select Map Outputs. The **results** element is displayed in the From Activity panel.
2. Click Select Outputs... and select the output variable or variables for the map. For instructions about creating variables, see [Creating variables](#).
3. As appropriate, map the output parameters to the variable or variables. For mapping instructions, see [Creating a map](#).

**Parent topic:** [ServiceMax activities](#)

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## Retrieve Objects activity

---

Use this activity to retrieve one or more ServiceMax objects of a specified type. While the Salesforce.com API limits the number of objects that it can retrieve in a single call to 2,000 objects, the Cast Iron® ServiceMax connector does not have such a limit. You can use the **Retrieve Objects** activity to retrieve an unlimited number of objects.

## Using the Retrieve Objects activity

---

1. In the Activities tab, open the ServiceMax directory to find the Retrieve Objects activity.
2. Add the activity to your orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. Select a ServiceMax endpoint.

For instructions on creating or editing a ServiceMax endpoint, see [Creating or editing a ServiceMax endpoint](#).

4. Configure the activity, by choosing a ServiceMax object type and object field preferences.

Only object types that the Integration Appliance is able to retrieve through the Salesforce.com API display.

5. Specify the Retry and Time out parameters for the activity.

## Mapping the input of the Retrieve Objects activity

---

1. In the Checklist, select Map Inputs.

The ids element is displayed in the To Activity pane. The element contains the collection of IDs that the Integration Appliance retrieves from ServiceMax.

2. (Optional) Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:
  - MruHeaderUser
  - CallOptions
  - connection
  - sessionInfo

3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

*Optional* and *nillable* field elements have the following behavior:

- If the field being retrieved is null, the Integration Appliance sets the `xsi:nil` attribute to `true` in the result.
- If the input ID is not valid or does not represent the object type that you specified, then for the entire object element the Integration Appliance sets `xsi:nil` to `true` for that element's position in the result set.

## Mapping the output of the Retrieve Objects activity

---

1. In the Checklist, select Map Outputs.

The objects element is displayed in the From Activity panel. The element contains all fields that you selected in the field preferences table, during the configuration steps.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [ServiceMax activities](#)

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## Query Objects activity

---

Use the Sforce Object Query Language (SOQL) to run a query on one or more Salesforce.com object types from this activity and return a results set. The Query Objects activity automatically runs a query or queryAll call, followed by continuous queryMore calls for all children and objects returned from Salesforce.com.

Note: Running the Query Objects activity can result in a cursor being opened by Salesforce.com to track the query results. If the activity reaches the cursor limit that Salesforce.com allots to each user or if the cursor expires, the Integration Appliance tries the activity again.

### Using the Query Objects activity

---

1. In the Activities tab, open the Salesforce.com directory to find the Query Objects activity.
2. Add the activity to your orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. Select a Salesforce.com endpoint.

For instructions on creating or editing a Salesforce.com endpoint, see [Creating or editing a Salesforce.com endpoint](#).

4. Configure the activity, by specifying a query and setting query options.
5. Specify the Retry and Time out parameters for the activity.
6. Map the input of the activity.
7. Map the output of the activity.

### Map the input of the Query Objects activity

---

1. In the Checklist, select Map Inputs.

The parameters element is displayed in the To Activity panel. The parameters element has a child element for each parameter you specified in the SOQL query. The context for the parameter in the query determines the parameter type. If you did not specify any parameters, then no child elements are displayed under the parameters element.

2. Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:
  - o MruHeader
  - o CallOptions
  - o connection
  - o sessionInfo
3. Click Select Inputs... and select the input variable or variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variable or variables.

For mapping instructions, see [Creating a Map](#).

### Map the output of the Query Objects activity

---

1. In the Checklist, select Map Outputs.

The objects element is displayed in the From Activity panel. The result parameter has a single element named objects with a single repeating element named after the driving object of the query. The driving object is the first object named in the FROM clause of the query. For example, in the following SOQL statement Account is the driving object:

Select Name from Account, Account.Contacts

The driving object has child elements that correspond to the fields or relationships listed in the SELECT clause of a query.

Â The schema is defined as follows:

- o For fields, the field type matches the SOAP type of the field. The field type is nullable if the SOAP type is nullable.
- o For relationships for parent elements, the element name is the name of the parent. If there is no parent when the activity runs the query, then the element is absent. The fields or relationships of the parent is displayed immediately

- underneath the relationship element.
- o For relationships for child elements, the element name is the name of the child. The relationship element has a single repeating element named after the object type of the child object. The fields and relationship of the child is displayed underneath the object type element. If there are no children when the activity runs the query, then the element is absent.
  - o If you did not select any fields or relationships, but instead request the count() in the SELECT clause, the entire object type element is replaced with an element named count of type unsignedInt.

Â

2. Click Select Outputs... and select the output variable or variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variable or variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [Salesforce.com activities](#)

**Parent topic:** [ServiceMax activities](#)

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## Configuring the Query Objects activity

You must create a Sforce Object Search Language (SOSL) query to configure the **Search Objects** activity. The following sections discuss the steps to configure the **Search Objects** activity, create an SOSL query, and provide SOSL syntax rules for IBM® Cast Iron®.

### Procedure

1. In the Checklist, select Configure.

The Specify Query window opens.

2. Create an SOSL query in the Specify Query window.

3. Optional: You can specify dynamic parameters in the search clause of the SOSL statement. You can then map these parameters dynamically as the input parameters for the activity, which allows the activity to dynamically control the query that is based on the input to the orchestration. Use a (\$) dollar sign to denote a parameter and follow it with the parameter name.

4. Click the Validate icon  , to validate the query.

If the query is invalid, the Validation Feedback icon  displays in the lower left corner of the Specify Query window. For invalid queries:

a. Click the Validation Feedback icon in the lower left corner of the Specify Query window for a list of validation errors.

b. Use the Refresh icon  To refresh metadata and revalidate the SOSL statement.

5. In the Checklist, select Query to configure specific query options.

The Query Options pane opens.

6. Select Include deleted items in query (execute a queryAll operation), to query for deleted records in addition to existing records. If you do not select this option, the Integration Appliance only queries existing records.

7. Specify a Query batch size between 200-2000 queries to help tune the performance of the Integration Appliance.

The option determines the batch size to use in the QueryOptions SOAP header for all query calls and does not affect the number of results that are returned by the activity. By default, this option is set to 500 queries.

**Parent topic:** [ServiceMax activities](#)

## Creating SOSL Queries

When creating a SOQL query, you can use dynamic parameters in the WHERE clause of the SOQL statement. Studio can then dynamically map these parameters as the input parameters for the activity. This allows for dynamic control of the query that is based on input to the orchestration.

## About this task

The SForce Object Query Language does not define a syntax for parameterized queries; however, Cast Iron does enforce some proprietary SOQL syntax rules. You can use parameters in either simple expressions or set expressions.

### SOSL Syntax Rules for Cast Iron

- Use a (\$) dollar sign to denote a parameter. After the (\$) dollar sign, specify a string of alphanumeric characters. The first character must be a letter [a-zA-Z], optionally followed by one or more letters [a-zA-Z], digits [0-9], or ( \_) underscores.

Note: Parameter names are case-sensitive; therefore, the parameters \$a and \$A are considered to be different parameters.

The following table contains examples of valid and invalid parameter declarations:

Parameter	Valid or Invalid
\$AnAccount	valid
\$a123_456	valid
\$123a	invalid
\$_id	invalid

- You must declare parameters on the right side of an expression in a WHERE clause.

- Parameters can appear more than once in a given SOQL statement. However, even though the parameter appears more than once in the SOQL statement, it only appears once in the input parameter map. The activity substitutes the same value for all locations where the parameter is used at run time.

Note: When you use the same parameter name and there is a type mismatch, an error occurs. For example, the following SOQL generates an error because \$param is used as both a string and date type:

```
SELECT Name from Account where Name like $param and createdDate > $param
```

- The type of the field in which a parameter is being compared determines the type of the parameter and whether the parameter is being used in a simple expression, a set expression, or part of a set expression.

Type of Expression	Description
Simple Expressions	<p>For example: Select ID from Account where Name = \$NameParam</p> <p>The SoapType of the field on the left side of the expression determines the parameter type. If the field type is nullable and the operator is (=) or (!=), then the parameter is nullable. Setting xsi:nil=true on the parameter sets the parameter value to null when it is substituted. If the parameter's type requires it to be enclosed in (‘) single quotation marks, then the parameter's value is enclosed in single quotation marks during substitution and its contents are escaped automatically.</p> <p>For SOQL, the (\) backslash and (‘) single quotation mark is escaped.</p>
Set Expressions	<p>For example: Select ID From Account where ID in \$idList</p> <p>The parameter's type is a repeating sequence of the SoapType of the field on the left side of the expression. The parameter is not nullable and has minOccurs=1, maxOccurs=unbounded on the element.</p> <p>The sequence is expanded at run time to be a proper set value, for example:</p> <p>Select Id From Account where Id in (‘value1’,‘value2’)</p>
Part of a Set Expression	<p>Parameters inside a set list are treated like a simple expression parameter type, for example: SELECT Name from Account where BillingState IN (‘California’, \$state2)</p> <p>In this example, the \$state2 parameter type is the SoapType of the Account BillingState field and is not a repeating element. The parameter is not nullable.</p>

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## Search Objects activity

---

### About this task

Use the Sforce Object Search Language (SOSL) to run a search query on one or more ServiceMax object types from this activity and return a results set.

Note: You can only search objects that are configured as searchable or eSearchable. You cannot search attachment objects.

Using the Search Objects activity:

### Procedure

---

1. In the Activities tab, open the ServiceMax directory to find the **Search Objects** activity.
2. Add the activity to an orchestration. The **Checklist** and **Summary** for the activity is displayed beneath the orchestration.

### Results

---

1. Select a ServiceMax endpoint. For instructions on creating or editing a ServiceMax endpoint, see [Creating or editing a ServiceMax endpoint](#).
2. [Configure](#) the activity, by specifying a search query and setting search query options.
3. [Specify](#) the Retry and Time out parameters for the activity.
4. Map the input of the activity.
5. Map the output of the activity.

#### Mapping the input of the Search Objects activity:

1. In the **Checklist**, select Map Inputs. The parameters element is displayed in the To Activity panel. The parameter element has a child element for each parameter you specified in the SOSL query. The context for the parameter in the query determines the parameter type. If you did not specify any parameters, then no child elements are displayed under the parameters element.
2. Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:
  - o CallOptions
  - o connection
  - o sessionInfo
3. Click Select Inputs... and select the input variable or variables for the map. For instructions about creating variables, see [Creating variables](#).
4. As appropriate, map the input parameters to the variable or variables. For mapping instructions, see [Creating a map](#).

#### Mapping the output of the Search Objects activity:

1. In the **Checklist**, select Map Outputs. The **objects** element is displayed in the From Activity panel.
2. Click Select Outputs... and select the output variable or variables for the map. For instructions about creating variables, see [Creating variables](#).
3. As appropriate, map the output parameters to the variable or variables. For mapping instructions, see [Creating a map](#).

**Parent topic:** [ServiceMax activities](#)

## Configuring the Search Objects activity

---

You must create an Sforce Object Search Language (SOSL) query to configure the **Search Objects** activity.

### About this task

---

The following sections discuss the steps to configure the **Search Objects** activity, create an SOSL query, and provide SOSL syntax rules for IBM® Cast Iron®.

To configure the Search Objects activity complete the following steps:

### Procedure

---

1. In the Checklist, select Configure. The Specify Query window opens.
2. Create an SOSL query in the Specify Query window.
3. Optional: You can specify dynamic parameters in the search clause of the SOSL statement. You can then map these parameters dynamically as the input parameters for the activity, which allows the activity to dynamically control the query that is based on the input to the orchestration. Use a (\$) dollar sign to denote a parameter and follow it with the parameter name.
4. Click the Validate icon to validate the query. If the query is invalid, the Validation Feedback icon shows in the lower left corner of the Specify Query window. For invalid queries:
  - o Click the Validation Feedback icon in the lower left corner of the Specify Query window for a list of validation errors.
  - o Use the Refresh icon to refresh metadata and revalidate the SOSL statement.

**Parent topic:** ServiceMax activities

## Creating SOSL queries

---

### About this task

When creating a Sforce Object Search Language (SOSL) query, you can use dynamic parameters in the WHERE clause of the SOSL statement. Studio can then dynamically map these parameters as the input parameters for the activity. This allows for dynamic control of the query that is based on input to the orchestration.

The Sforce Object Search Language does not define a syntax for parameterized queries; however, IBM Cast Iron does enforce a few proprietary SOSL syntax rules. You can use parameters in either simple expressions or set expressions.

### SOSL syntax rules for IBM Cast Iron

### About this task

- Use a (\$) dollar sign to denote a parameter. After the (\$) dollar sign, specify a string of alphanumeric characters. The first character must be a letter [a-zA-Z], optionally followed by one or more letters [a-zA-Z], digits [0-9], or ( \_) underscores.  
Note: Parameter names are case-sensitive; therefore, the parameters \$a and \$A are considered to be different parameters.

The following table contains examples of valid and invalid parameter declarations:

Parameter	Valid or Invalid
\$AnAccount	valid
\$a123_456	valid
\$123a	invalid
\$_id	invalid

- You must declare parameters in the Search Query portion of the SOSL statement. Curly braces ({} ) demarcate the Search Query portion of the SOSL statement.

Important: Do not use double quotation marks (" ") to enclose parameters. If you enclose parameters in double quotation marks, the activity treats the parameter as a string search literal.

- The parameter type is always xsd:string. During substitution, the activity escapes any parameter that you declare using a reserved character. Reserved characters include the following characters:

Reserved Characters	Description
&	ampersand
*	asterisk
\	back slash
[ ]	box brackets
:	colon
,	comma
{ }	curly braces
"	Double quotation mark
!	exclamation mark
-	minus sign
+	plus sign
'	Single quotation mark
~	tilde
^	up arrow
	vertical bar

- Parameters can appear more than once in a given SOQL statement. However, even though the parameter appears more than once in the SOQL statement, it only appears once in the input parameter map. The activity substitutes the same value for all locations where the parameter is used at run time.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SerMax\\_Configuring\\_the\\_Search\\_Objects\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SerMax_Configuring_the_Search_Objects_Activity.html)

## Convert Lead activity

Use this activity to convert leads into accounts, contacts, or opportunities in ServiceMax. While the Salesforce.com API limits the number of objects that it can convert in a single call to 100 objects, the Cast Iron® ServiceMax connector does not have such a limit. You can use the **Convert Lead** activity to convert an unlimited number of objects.

### Procedure

- In the Activities tab, open the ServiceMax directory to find the Convert Lead activity.
- Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

- Select a ServiceMax endpoint.

For instructions on creating or editing a ServiceMax endpoint, see [Creating or editing a ServiceMax endpoint](#).

- Specify the Retry and Time out parameters for the activity.

### What to do next

Map the inputs of the Convert Lead activity.

**Parent topic:** [ServiceMax activities](#)

## Mapping the input of the Convert Lead activity

---

### Procedure

1. In the Checklist, select Map Inputs.

The `convertLead` element displays in the To Activity pane. The parameters that are displayed correspond to the structure of the input to the ServiceMax `convertLead` operation.

2. Optional: Right-click the default node and choose Show Optional Parameters, to show the optional input parameters for this activity:

- `CallOptions`
- `connection`
- `sessionInfo`

3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

### What to do next

Map the output of the Convert Lead activity.

## Mapping the output of the Convert Lead activity

### Procedure

1. In the Checklist, select Map Outputs.

The `convertLeadResponse` element is displayed in the From Activity panel. The parameters that are displayed correspond to the `convertLeadResponse` structure, which is returned by the `convertLead` operation.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

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## Merge Objects Activity

---

Use this activity to merge ServiceMax objects into a single record.

### About this task

---

You can merge two or more of the following ServiceMax objects into a single record:

- Account
- Contact
- Leads

After the activity merges the objects, it deletes the pre-merge records and reparents any duplicates.

While the Salesforce.com API limits the number of requests that it can merge in a single call to 200, the Cast Iron® ServiceMax connector does not have such a limit. You can use the **Merge Objects** activity to process an unlimited number of merge requests.

## Procedure

---

1. In the Activities tab, open the ServiceMax directory to find the Merge Objects activity.
2. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

3. Select a ServiceMax endpoint.

For instructions on creating or editing a ServiceMax endpoint, see [Creating or editing a ServiceMax endpoint](#).

4. Configure the activity, by choosing a ServiceMax object type and object field preferences.

You can only select Account, Contact, and Lead object types and fields that the Appliance can update. Fields such as auto-number fields might not be available to select.

5. Specify the Retry and Time out parameters for the activity.

## What to do next

---

Map the input of the Merge Objects activity.

**Parent topic:** [ServiceMax activities](#)

## Mapping the input of the Merge Objects activity

---

### Procedure

1. In the Checklist, select Map Inputs.

The Merge element is displayed in the To Activity panel.

2. Optional: Right-click the default node and choose Show Optional Parameters, to display these optional input parameters for this activity:
  - o AssignmentRuleHeader
  - o MruHeader
  - o EmailHeader
  - o CallOptions
  - o connection
  - o sessionInfo

3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

*Optional* and *nillable* field elements have the following behavior:

- o The Integration Appliance does not update an optional field, when the ServiceMax server does not provide a value for the field.
- o If you set the `xsi:nil` attribute to `true` on a *nillable* field, the Integration Appliance sets the field to null during an update.

Note: Setting a field to an empty string does not set a field to null.

## Mapping the output of the Merge Object activity

---

### Procedure

1. In the Checklist, select Map Outputs.

The results element is displayed in the From Activity panel. The parameters that are displayed correspond to the structure of the ServiceMax `MergeResults` schema.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

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## Get User Information activity

---

Use this activity to get user information from the ServiceMax server. In the Activities tab, open the ServiceMax directory to find the Get User Information activity.

### Procedure

---

1. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

2. Select a ServiceMax endpoint.

For instructions on creating or editing a ServiceMax endpoint, see [Creating or editing a ServiceMax endpoint](#).

3. Specify the Retry and Time out parameters for the activity.

### What to do next

---

Map the output of the Get User Information activity.

**Parent topic:** [ServiceMax activities](#)

## Mapping the output of the Get User Information activity

---

### Procedure

1. In the Checklist, select Map Outputs.

The  `GetUserInformationResult` element contains the ServiceMax user information and opens in the From Activity panel.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

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## Get Server Timestamp activity

---

Use this activity to get the current time from the ServiceMax server. In the Activities tab, open the ServiceMax directory to find the Get Server Timestamp activity.

### Procedure

---

1. Add the activity to an orchestration.

The Checklist and Summary for the activity are displayed beneath the orchestration.

2. Select a ServiceMax endpoint.

For instructions on creating or editing a ServiceMax endpoint, see [Creating or editing a ServiceMax endpoint](#).

3. Specify the Retry and Time out parameters for the activity.

### What to do next

---

Map the output of the Get Server Timestamp activity.

**Parent topic:** [ServiceMax activities](#)

## Mapping the output of the Get Server Timestamp activity

---

### Procedure

1. In the Checklist, select Map Outputs.

The serverTimestamp element contains the ServiceMax user information and opens in the From Activity panel.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

---

### Feedback | Notices

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SerMax\\_Get\\_Server\\_Timestamp\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SerMax_Get_Server_Timestamp_Activity.html)

## Send email activity

---

Use this activity to send single or multiple emails. The emails include all standard email attributes such as the email address, subject line, and carbon copies.

### Using the email activity

---

1. In the Activities tab, open the ServiceMax directory to find the Send Email activity.
2. Drag the Send Email activity onto the orchestration.

The Summary and Checklist for the activity are displayed beneath the orchestration.

### 3. Select a ServiceMax endpoint.

For instructions on creating or editing a ServiceMax endpoint, see [Creating or editing a ServiceMax endpoint](#).

4. In the Configure section, select the Send Mass Emails check box if you want to send multiple emails.
5. Specify the Retry and Activity Timeout parameters for the activity.
6. Map the inputs of the activity.
7. Map the outputs of the activity.

## Mapping the input of the Send Email activity

---

### 1. In the Checklist, select Map Inputs.

The emails parameter is displayed in the To Activity pane.

2. Right-click the default node and choose Show Optional Parameters, to display these optional input parameters for this activity:
  - connection
  - sessionInfo
3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

## Mapping the output of the Send Email activity

---

### 1. In the Checklist, select Map Outputs.

The results and sessionInfo elements are displayed in the From Activity pane.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [ServiceMax activities](#)

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## Set password activity

---

Use this activity to change the password of a user or `SelfServiceUser` to a value that you specify.

Note: You must have the administrative permission to change the password for the users.

## Using the Set Password activity

---

1. In the Activities tab, open the ServiceMax directory to find the Set Password activity.
2. Drag the Set Password activity onto the orchestration.

The Summary and Checklist for the activity are displayed beneath the orchestration.

3. Select a ServiceMax endpoint.

For instructions on creating or editing a ServiceMax endpoint, see [Creating or editing a ServiceMax endpoint](#).

Note: No additional configuration is required for this activity in the Configure section.

4. Specify the Retry and Activity Timeout parameters for the activity.
5. Map the inputs of the activity.
6. Map the outputs of the activity.

## Mapping the input of the Set Password activity

---

1. In the Checklist, select Map Inputs.

The userId and password parameters are displayed in the To Activity pane.

2. Right-click the default node and choose Show Optional Parameters, to display these optional input parameters for this activity:

- o CallOptions
- o connection
- o sessionInfo

3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

## Mapping the output of the Set Password activity

---

1. In the Checklist, select Map Outputs.

The sessionInfo element is displayed in the From Activity pane.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [ServiceMax activities](#)

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## Reset password activity

---

Use this activity to reset the password of the user to a system-generated value.

Note: You must have administrative permission to reset the password for the users.

## Using the Reset Password activity

---

1. In the Activities tab, open the ServiceMax directory to find the Reset Password activity.
2. Drag the Reset Password activity onto the orchestration.

The Summary and Checklist for the activity are displayed beneath the orchestration.

3. Select a ServiceMax endpoint.

For instructions on creating or editing a ServiceMax endpoint, see [Creating or editing a ServiceMax endpoint](#).

Note: No additional configuration is required for this activity in the Configure section.

4. Specify the Retry and Activity Timeout parameters for the activity.

## Mapping the input of the Reset Password activity

---

1. In the Checklist, select Map Inputs.

The userId parameter is displayed in the To Activity pane.

2. Right-click the default node and choose Show Optional Parameters, to display these optional input parameters for this activity:

- o CallOptions
- o EmailHeader
- o connection
- o sessionInfo

3. Click Select Inputs... and select the input variables for the map.

For instructions about creating variables, see [Creating Variables](#).

4. As appropriate, map the input parameters to the variables.

For mapping instructions, see [Creating a Map](#).

## Mapping the output of the Reset Password activity

---

1. In the Checklist, select Map Outputs.

The password and sessionInfo elements are displayed in the From Activity pane.

2. Click Select Outputs... and select the output variables for the map.

For instructions about creating variables, see [Creating Variables](#).

3. As appropriate, map the output parameters to the variables.

For mapping instructions, see [Creating a Map](#).

**Parent topic:** [ServiceMax activities](#)

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## Service Now Activities

---

- [Overview of ServiceNow Connector](#)
- [Creating or editing an endpoint for ServiceNow activity](#)

Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to ServiceNow platform. ServiceNow uses both Basic and OAuth 2.0 authentication mechanism so as to authorize users to perform operations.

- [Using the ServiceNow Session Management](#)

JSessionID field can be used to execute the records in a single session.

- [Using the ServiceNow Create Activity](#)

Use the Create activity to create records for standard and custom tables in ServiceNow.

- [Using the ServiceNow Retrieve Activity](#)

Use the Retrieve activity to get records from standard and custom tables in ServiceNow.

- [Using the ServiceNow Update Activity](#)  
Use the Update activity to get records from standard and custom tables in ServiceNow.
- [Using the ServiceNow Delete Activity](#)  
Use the Delete activity to remove records from standard and custom tables in ServiceNow.

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## Overview of ServiceNow Connector

---

ServiceNow is a platform-as-a-service (PaaS) provider of IT service management (ITSM) software. ServiceNow also automates and standardizes common business processes. The platform contains a number of modular applications that can vary by instance and user.

The ServiceNow platform is based on service-oriented architecture (SOA), in which all data objects can use web services to access bi-directional data-level integration.

You can perform the following activities using ServiceNow connector:

- Outbound Activities:
  - Create
  - Retrieve
  - Update
  - Delete

Note: For ServiceNow integration one need to have Admin role.

**Parent topic:** [Service Now Activities](#)

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## Creating or editing an endpoint for ServiceNow activity

---

Endpoints provide the configuration information that the Studio and the Integration Appliance use to connect to ServiceNow platform. ServiceNow uses both Basic and OAuth 2.0 authentication mechanism so as to authorize users to perform operations.

### Selecting or editing ServiceNow endpoint

To select or edit an ServiceNow endpoint:

1. In the **Create Endpoint** or **Edit Endpoint** pane, configure the ServiceNow endpoint as described in the following table.

Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.

2. Click **Test Connection** to confirm that the connection details are valid and you are able to connect to the ServiceNow successfully.
3. Click **OK**.

*Table: Connection properties*

Field Name	Description
Host Name	Host Name for ServiceNow API, e.g. <vender-name>.service-now.com
User Name	ServiceNow User Name used for basic authentication, required only if Select For OAuth Authentication is unchecked.
Password	ServiceNow Password used for basic authentication, required only if Select For OAuth Authentication is unchecked.
Select For OAuth Authentication	Check Box. Decides the authentication mechanism used by the user. Should be checked if OAuth 2.0 authentication is used, else unchecked for basic authentication.
OAuth Access Token	OAuth Access Token for ServiceNow API, required only if Select For OAuth Authentication is checked.
OAuth Refresh Token	OAuth Refresh Token for ServiceNow API, required only if Select For OAuth Authentication is checked.
Application Client Id	Application Client Id for ServiceNow account, required only if Select For OAuth Authentication is checked.
Application Client Secret	Application Client Secret for ServiceNow account, required only if Select For OAuth Authentication is checked.

Note: To generate the access token, refer to the ServiceNow documentation relating to "OAuth Authentication".

#### Tables Supported by the ServiceNow Connector

All standard and custom tables are supported by ServiceNow Connector.

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## Using the ServiceNow Session Management

JSessionID field can be used to execute the records in a single session.

### About this task

Session Management is applicable for runtime operations only. If JSessionID value is null or expired, the Connector re-generates it implicitly, uses it in the execution of the activity and returns it in the response. This JSessionID can be used in other activities by providing the same value in the other activity. If the JSessionID is idle for 5 min it expires and user can provide the value as null and connector re-generates it.

### Procedure

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created ServiceNow endpoint to the orchestration and select any activity.
3. Double click the activity added to the orchestration.
4. In the Checklist, click Configure.
5. Click Browse and use the Project Explorer dialog box to select the relevant ServiceNow table.
6. Click the Map Inputs in the Checklist. The XML Schemas generated for the selected activity are displayed.
7. Create a map between the orchestration variables and the input parameter of the activity.
8. To reuse the session, provide valid session information in JSessionID Field. If the value is not available the connector re-generates it and returns.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node.
9. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
10. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the ServiceNow activity. If Session ID present in JSessionID is valid then the same should be displayed in Map Outputs as JSessionID. This value can be stored in a Variable and can be used in execution of further operations. If the JSessionID field value is invalid or expired then new session ID gets created which is then implicitly used in the execution of an activity. This new value is then displayed in Map Outputs as JSessionID.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [Service Now Activities](#)

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## Using the ServiceNow Create Activity

---

Use the Create activity to create records for standard and custom tables in ServiceNow.

### About this task

---

Use this task to add records to the table in ServiceNow instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created ServiceNow endpoint to the orchestration and select Create activity. The Create activity will be added to the orchestration. Double click the activity.
3. In the Checklist, click Configure.
4. Click Browse and use the Project Explorer dialog box to select the relevant ServiceNow table.
5. Select the Map Inputs in the Checklist. The XML Schemas generated for that operation are displayed.
6. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node.
7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the ServiceNow Create Objects activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [Service Now Activities](#)

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## Using the ServiceNow Retrieve Activity

---

Use the Retrieve activity to get records from standard and custom tables in ServiceNow.

### About this task

---

Use this task to get records from the table in ServiceNow instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created ServiceNow endpoint to the orchestration and select Retrieve activity. The Retrieve activity will be added to the orchestration. Double click the activity.
3. In the Checklist, click Configure.
4. Click Browse and use the Project Explorer dialog box to select the relevant ServiceNow table.
5. Select the Map Inputs in the Checklist. The XML Schemas generated for that operation are displayed.
6. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory fields:**

- `is_all_records`: to fetch all the records.
- `sys_id`: to fetch specific record when `is_all_records` is false.

**Customize:** To customize the response `query_object` is used. Below are `query_object` fields:

- `sysparm_display_value`: Data retrieval operation for reference and choice fields. Set this parameter to one of these values,
  - **true**: Returns display values for all of the fields.
  - **false**: Returns actual values from the database. If a value is not specified, this parameter defaults to **false**.
  - **all**: Returns both actual and display values.
- `sysparm_exclude_reference_link`: Additional information provided for reference fields, such as the URI to the reference resource, is suppressed.
- `sysparm_fields`: Comma-separated field names to return in the response.
- `sysparm_limit`: Limit to be applied on pagination. The default is 10000.
- `sysparm_query`: An encoded query.
- `sysparm_view`: UI view to determine fields returned in the response.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the ServiceNow Retrieve activity.

Note:

You can add more than one `sys_id` fields as input to this activity. To add more than one `sys_id` fields as input, right click the `sys_id` field in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [Service Now Activities](#)

---

[Feedback](#) | [Notices](#)

## Using the ServiceNow Update Activity

---

Use the Update activity to get records from standard and custom tables in ServiceNow.

### About this task

---

Use this task to get records from the table in ServiceNow instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created ServiceNow endpoint to the orchestration and select Update activity. The Update activity will be added to the orchestration. Double click the activity.
3. In the Checklist, click Configure.
4. Click Browse and use the Project Explorer dialog box to select the relevant ServiceNow table.
5. Select the Map Inputs in the Checklist. The XML Schemas generated for that operation are displayed.
6. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory fields:**

- o sys\_id: to update records.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the ServiceNow Update activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [Service Now Activities](#)

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[Feedback](#) | [Notices](#)

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## Using the ServiceNow Delete Activity

---

Use the Delete activity to remove records from standard and custom tables in ServiceNow.

### About this task

---

Use this task to remove records from the table in ServiceNow instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. Right click the Orchestrations section and select new orchestration.
2. Drag the newly created ServiceNow endpoint to the orchestration and select Delete activity. The Delete activity will be added to the orchestration. Double click the activity.
3. In the Checklist, click Configure.
4. Click Browse and use the Project Explorer dialog box to select the relevant ServiceNow table.
5. Select the Map Inputs in the Checklist. The XML Schemas generated for that operation are displayed.
6. Create a map between the orchestration variables and the input parameter of the activity.

**Mandatory fields:**

- o sys\_id: to delete records.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

7. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
8. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the ServiceNow Delete activity.

Note:

You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [Service Now Activities](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Service\\_Now\\_using\\_the\\_servicenow\\_delete\\_ac.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Service_Now_using_the_servicenow_delete_ac.html)

## Siebel activities

---

- [Overview of the Siebel connector](#)
- [Installing JAR files to connect to the Siebel server](#)

You must copy two JAR files on the same workstation as your Cast Iron Studio installation before you can connect to a Siebel server. Also, you can copy the Siebel.properties file, which is optional, to configure the connection timeout, transaction timeout, and the Siebel properties.

- [Creating or editing a Siebel endpoint](#)

Siebel endpoints contain the connection information that Studio and the Integration Appliance use to connect to a Siebel Business Applications Server. You can create multiple endpoints that refer to separate instances.

- [Using the Siebel Create Objects activity](#)

Use the Siebel Create Objects activity to work with either Siebel Business Objects, Business Components, or Siebel Integration Objects.

- [Using the Siebel Update Objects activity](#)

Use the Siebel Update Objects activity to work with either Siebel Business Objects, Business Components, or Siebel Integration Objects.

- [Using the Siebel Delete Objects activity](#)

Use the Siebel Delete Objects activity to work with either Siebel Business Objects, Business Components, or Siebel Integration Objects.

- [Using the Siebel Query Objects activity](#)

Use the Siebel Query Objects activity to work with either Siebel Business Objects, Business Components, or Siebel Integration Objects.

- [Using the Siebel Execute Business Service activity](#)

The Siebel execute business service activity is used to run a Siebel business service on the Siebel Business Applications server.

- [Prerequisites for starter activities in Siebel](#)

- [Using the Siebel Get Created Objects activity](#)  
Use the Get Created Objects activity to poll for Siebel Business Objects, Business Components, or Siebel Integration Objects from the Siebel server.
- [Using the Siebel Get Updated Objects activity](#)  
Use the Get Updated Objects activity to poll for events that were updated on the Siebel Server.
- [Using the Siebel Get Deleted Objects activity](#)  
Use the Get Deleted Objects activity to poll for deleted Siebel Business Objects, Business Components, or Siebel Integration Objects from the Siebel server.
- [Specifying Retry and Delivery Options for Siebel Activities](#)  
Specifying the Retry and Delivery parameters is one of the tasks to configure a Siebel activity configuration.
- [Siebel properties file](#)  
The Siebel connector uses Siebel API (Javaâ„¢ Data Bean) to interact with the Siebel server. Siebel API also provides a way to configure the connection settings on the client side. The `siebel.properties` file located in your classpath, can be used to provide default parameters for client applications connecting to Siebel applications using the Java Data Bean.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_siebelactivities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_siebelactivities.html)

## Overview of the Siebel connector

---

The Siebel connector enables a two-way communication between Cast Iron and the Siebel business applications server. The connector supports Business Object/Business Component (BO/BC), Integration Objects (IO), and Business Service (BS) interfaces.

You can perform the following activities using the Siebel connector:

- Outbound Activities
  - [Create Objects](#) (uses BO/BC or IO)
  - [Update Objects](#) (uses BO/BC or IO)
  - [Delete Objects](#) (uses BO/BC or IO)
  - [Query Objects](#) (uses BO/BC or IO)
  - [Execute Business Service](#) (uses BS)
- Inbound/Starter Activities
  - [Get Created Objects](#) (uses BO/BC or IO)
  - [Get Updated Objects](#) (uses BO/BC or IO)
  - [Get Deleted Objects](#) (uses BO/BC or IO)

The Siebel connector supports the following versions of the Siebel server: 7.0.5, 7.5.x, 7.7.x, 7.8.x, 8.0, 8.1, and 8.1.1.

The Siebel connector requires Siebel JAR files to connect to the Siebel server. For more information, see [Installing JAR files to connect to the Siebel server](#).

**Parent topic:** [Siebel activities](#)

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## Installing JAR files to connect to the Siebel server

---

You must copy two JAR files on the same workstation as your Cast Iron Studio installation before you can connect to a Siebel server. Also, you can copy the `Siebel.properties` file, which is optional, to configure the connection timeout, transaction timeout, and the Siebel properties.

## Before you begin

---

- The JAR files can be obtained from the Siebel system administrator.
- The JAR files must be on the same computer as the studio installation.
- The JAR files must be from the same version as the Siebel server you connect to.
- The `Siebel.properties` file must have properties for that particular version of the Siebel server.

## About this task

---

The files to be installed are:

- `Siebel.jar`
- A language specific JAR file. For example, the English language JAR file is named `SiebelJI_enu.jar`
- `Siebel.properties` - This is an optional file. For more information about the `Siebel.properties` file, see [Siebel properties file](#).

## Procedure

---

1. Open studio and select Tools > Install Module Providers.
2. When the Add Provider(s) dialog box is displayed, click the plus (+) button under Siebel Connector. A field and a Browse button appears.
3. Click Browse, and use the browse dialog box to locate and select the JAR files and the properties file (optional).
4. Click Open to import the contents of the selected files.
5. When the two JAR files and the properties file (optional) are listed in the Add Provider(s) dialog box, click OK.

## Results

---

A prompt is displayed to restart studio and activate the changes.

## What to do next

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You can now create Siebel endpoints and orchestrations.

**Parent topic:** [Siebel activities](#)

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## Creating or editing a Siebel endpoint

---

Siebel endpoints contain the connection information that Studio and the Integration Appliance use to connect to a Siebel Business Applications Server. You can create multiple endpoints that refer to separate instances.

## About this task

---

Use this task to create or edit a Siebel endpoint.

Note: Any changes you make to the Siebel endpoint, including configuration properties, affects all the orchestrations that use that endpoint, as the edits are global, not local.

## Procedure

---

1. Drag an activity from the Siebel folder under the Activities tab to the Orchestration window. The Summary panel is displayed.

2. Click Pick Endpoint under Checklist. The Pick Endpoint panel is displayed.
3. Click one of the following buttons:
  - a. Browse - To select an existing endpoint from Project Explorer. The Project Explorer window shows all the endpoints in the project available for the activity. When you select an endpoint, the endpoint properties are displayed in the Pick Endpoint panel.
  - b. New - To create a new endpoint. The Create Endpoint window opens.  
Note: In Version 6.1.0.1, select the first Siebel entry in the list. For more information, see the technote <http://www-01.ibm.com/support/docview.wss?uid=swg21516320>.
  - c. Edit - To edit the existing endpoint. The Edit Endpoint window opens.
4. Complete the fields defined in the following table:

Table 1. Connection properties

Field Name	Description
Connection information	
Connection URL	<p>Specifies the connection URL to connect to the Siebel server. The connection URLs for all versions of Siebel follow this format:</p> <pre>siebel[.transport][.encryption] [.compression]://host[:port]/EnterpriseServer/AppObjMgr</pre> <p>The default port number is 2320. For Siebel version 7.5x and earlier versions, the port number (2320) and the server name are specified.</p> <p>For Siebel version 7.8, the port and the server name are not specified.</p> <p>If you do not select the default port, you can specify another port number (for example, 2321).</p> <p>The following are the examples of connection URIs for different versions of the Siebel server:</p> <ul style="list-style-type: none"> <li>○ For Siebel 7.5: <code>siebel://&lt;IP_address&gt;:2320/siebel/SSEObjMgr_ENU/sebldev1</code></li> <li>○ For Siebel 7.8: <code>siebel://&lt;IP_address&gt;:/Sieb78/SSEObjMgr_enu</code></li> <li>○ For Siebel 8: <code>siebel://&lt;IP_address&gt;:2321/SBA_80/SSEObjMgr_enu</code></li> </ul>
Language Code	Specifies the language code to log on to the Siebel server. If the system locale is English, the value for this property is ENU (English).
User Name	Specifies the user name to connect to the Siebel server.
Password	Specifies the password associated with the user name to connect to the Siebel server.
Code page	<p>Specifies the character encoding (code page) of the Siebel Server. The character encoding (code page) of the Siebel Server and the character encoding of the Siebel client (machine on which Siebel connector is used) must be the same. This allows the Siebel client and the Siebel Server to communicate correctly. Change the character encoding of the Siebel client if it is different from that of the Siebel server.</p> <p>The Siebel Javaâ„¢ Data Bean supports a limited list of code page settings. If the current code page setting of your run time is not supported, the connector may not be able to connect to the Siebel server. For more details refer to the Siebel Java Data Bean documentation.</p>
Load Balancing	
Use Resonate for load balancing on Siebel server	Specifies the option (select the check box) if the Siebel system uses resonate for load balancing. The connector takes advantage of the load balancing feature to connect to the Siebel Business Applications server efficiently.
Connection pool options	
Minimum Connections	Specifies the minimum number of connections available in the connection pool. The activity uses the connections to connect to a Siebel server. The default value is 5.
Maximum Connections	Specifies the maximum number of connections available in the connection pool. The activity uses the connections to connect to a Siebel server. The default value is 25.
Maximum Idle Time	Specifies the amount of time in minutes an open connection can be idle before being closed by the Integration Appliance. Entering 0 (zero) means that the connections are closed when they are returned to the pool - no idle time. The default value is 120 minutes.

Field Name	Description
Maximum Wait	Specifies the amount of time in seconds that the Integration Appliance waits for a connection when all the connections in the pool are exhausted. If no connection is obtained after the wait time, an exception is thrown. The default value is 300 seconds.
Reclaim Connections	Specifies the interval at which the connector checks for idle connections. Idle connections are reclaimed until the minimum number of connections, as specified in the Minimum Connections parameter, is reached. By default, the connector reclaims connections at five minutes interval.
Â	Note: The Connection pool properties need to be configured as per the load (number of concurrent requests) on the endpoint.
Remote endpoint configuration	
Endpoint Runs Behind Firewall	Enables the secure connector name property so that secure connector can be used if the Siebel Business Applications server is running behind a firewall.
Secure Connector Name	Specifies the name of the secure connector that is used to connect to the Siebel Business Applications server running behind a firewall. For example, if an orchestration containing Siebel activity is deployed on to Cast Iron® Live (cloud), then the secure connector needs to be configured.

5. When finished, click Test Connection to confirm that you can connect to the Siebel system.

6. Click OK.

**Parent topic:** [Siebel activities](#)

**Related information:**

 [Technote: Changes in the Siebel activities in WebSphere Cast Iron version 6.1.x.x when compared to the earlier versions \(6.0.0.x and earlier\)](#)

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## Using the Siebel Create Objects activity

Use the Siebel Create Objects activity to work with either Siebel Business Objects, Business Components, or Siebel Integration Objects.

### Before you begin

Ensure that you have:

- Installed the JAR files required to connect to the Siebel server. For more information, see [Installing JAR files to connect to the Siebel server](#).
- Valid connection details to connect to the Siebel server.

### About this task

Use this task to create either a Business Component hierarchy or an Integration Object on the Siebel server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

1. In an active orchestration, open the Activities tab and expand the Siebel folder contents.
2. Drag the Create Objects activity icon onto the orchestration. The Siebel create objects Checklist is displayed.
3. In the Checklist, click Summary.

4. Review the contents of the Activity Name field, and make the required changes.
  5. In the Checklist, click Pick Endpoint.
  6. Click Browse and use the Project Explorer dialog box to select the relevant Siebel endpoint.
  7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
- Note: For more information, see [Creating or editing a Siebel endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
  9. In the Checklist, click Configure.
  10. Enter the repository name in the Repository Name text box. Repository name is populated with a default value, which represents the Siebel Repository. Enter the repository name if it is not same as the default value. All the metadata needed for discovering the objects are retrieved from this repository.
  11. Select one of the following objects for integration.

To work with **Business Object/Business Component**:

- a. Select the Object Type as Business Object / Business Component.
  - b. Click Browse to display the list of Business Objects.
  - c. Use the Business Object Filter to filter the business objects during selection.
  - d. Optional: Click Refresh to update the current object list from the Siebel server.
  - e. Select a Business Object from the business object list and click Next.
  - f. The list of business components for the selected business object is displayed. Select a business component and click Finish to generate schemas for the map input and map output.
  - g. If the selected business component is a child of a parent business component, then both the parent and the child business components are generated with a relation between them.
- Note: Each of the child object attributes created in the map input is processed by the activity as follows:
- The key attributes are not set on the parent business component. Siebel generates the key attributes when a record is created. If the key attributes are set, Siebel returns an exception and sets the read-only fields populated with values.
  - If the child object is a business component of a Picklists, and you want to select an existing child instance, do not create a new child object. Instead, set the value on the parent. For example, if you select an existing Business Address under Account, set the PrimaryAddressId instead of creating a Business Address. However, to create a new child instance, you must populate the non-key attributes in the child business component so that the activity tries to create the corresponding child instance in the Siebel application.
  - If there are static Picklists, then the corresponding simple attribute in the object is required. If a value is not listed in the Picklist's list of values, the activity tries to populate the value. If the list is unbounded and Insert is enabled, the activity processing is successful. If the activity is unable to populate the value by itself, the operation fails.
  - The child record is created with multi-value links. If the create operation for the child record fails, the child record is rolled back. If the create operation for the parent record fails, all the child and the parent records are rolled back.
  - The connector attempts to select an existing child business component (for example, Association) based on the values of all the attributes in the corresponding input child object. If a matching child business component is found, it is associated with the parent. If a matching child business component is not found, a new child business component is created and associated with the parent business component.
  - If the child create operation fails, the child is rolled back. If the parent create operation fails, only the parent is rolled back. Because association components can also be individual components, as well as children of other components, a child, or parent cannot be rolled back once an associated child has been created.

To work with Integration Object:

- a. For Siebel Integration Object, select the Object Type as Integration Object.
  - b. Click Browse to display the list of integration objects.
  - c. Use Integration Object Filter to filter the integration objects during selection.
  - d. Optional: Click Refresh to update the current object list from the Siebel server.
  - e. Select an integration object and click Finish to generate schemas for the map input and map output. During processing, the selected business service is executed and the output is sent back to the orchestration.
  12. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying Retry and Delivery Options for Siebel Activities](#).
  13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Create Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
  14. Create a map between the orchestration variables and the input parameter of the activity.
- Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a

mandatory element, the activity throws an exception, which is reported by the Web Management Console (WMC). If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Siebel Create Objects activity.

**Parent topic:** [Siebel activities](#)

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## Using the Siebel Update Objects activity

---

Use the Siebel Update Objects activity to work with either Siebel Business Objects, Business Components, or Siebel Integration Objects.

### Before you begin

---

Ensure that you have:

- Installed the JAR files required to connect to the Siebel server. For more information, see [Installing JAR files to connect to the Siebel server](#).
- Valid connection details to connect to the Siebel server.

### About this task

---

Use this task to update either a Business Component hierarchy or an Integration Object on the Siebel server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Siebel folder contents.
2. Drag the Update Objects activity icon onto the orchestration. The Siebel Update Objects Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Siebel endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing a Siebel endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Enter the repository name in the Repository Name text box. Repository name is populated with a default value, which represents the Siebel Repository. Enter the repository name if it is not same as the default value. All the metadata needed for discovering the objects are retrieved from this repository.
11. Select one of the following objects for integration.

To work with **Business Object/Business Component**:

- a. Select the Object Type as Business Object / Business Component.
- b. Click Browse to display the list of Business Objects.
- c. Use the Business Object Filter to filter the business objects during selection.

- d. Optional: Click Refresh to update the current object list from the Siebel server.
- e. Select a Business Object from the business object list and click Next.
- f. The list of business components for the selected business object is displayed. Select a business component and click Finish to generate schemas for the map input and map output.

During processing, the business component hierarchy is retrieved from the Siebel server and compared to the incoming top-level business object hierarchy of the activity. The child objects are created, updated, and deleted based on the results of this comparison. The Update activity fails if the key attributes (for example, ID) are not set correctly.

To work with Integration Object:

- a. For Siebel Integration Object, select the Object Type as Integration Object.
  - b. Click Browse to display the list of integration objects.
  - c. Use Integration Object Filter to filter the integration objects during selection.
  - d. Optional: Click Refresh to update the current object list from the Siebel server.
  - e. Select an integration object and click Finish to generate schemas for the map input and map output. During processing, the selected business service is executed and the output is sent back to the orchestration.
12. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying Retry and Delivery Options for Siebel Activities](#).
  13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Update Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
  14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
  15. Select the Map Outputs in the checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
  16. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Siebel Update Objects activity.

**Parent topic:** [Siebel activities](#)

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## Using the Siebel Delete Objects activity

---

Use the Siebel Delete Objects activity to work with either Siebel Business Objects, Business Components, or Siebel Integration Objects.

### Before you begin

---

Ensure that you have:

- Installed the JAR files required to connect to the Siebel server. For more information, see [Installing JAR files to connect to the Siebel server](#).
- Valid connection details to connect to the Siebel server.

### About this task

---

Use this task to delete either a Business Component hierarchy or an Integration Object on the Siebel server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Siebel folder contents.
2. Drag the Delete Objects activity icon onto the orchestration. The Siebel Delete Objects Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Siebel endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing a Siebel endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Enter the repository name in the Repository Name text box. Repository name is populated with a default value, which represents the Siebel Repository. Enter the repository name if it is not same as the default value. All the metadata needed for discovering the objects are retrieved from this repository.
11. Select one of the following objects for integration.

To work with **Business Object/Business Component**:

- a. Select the Object Type as Business Object / Business Component.
- b. Click Browse to display the list of Business Objects.
- c. Use the Business Object Filter to filter the business objects during selection.
- d. Optional: Click Refresh to update the current object list from the Siebel server.
- e. Select a Business Object from the business object list and click Next.
- f. The list of business components for the selected business object is displayed. Select a business component and click Finish to generate schemas for the map input and map output.

The Delete activity deletes the top-level business objects and its children. This results in a physical delete, and the record is removed from the Siebel application. The Delete activity fails if the key attributes (for example, ID) are not set correctly.

To work with Integration Object:

- a. For Siebel Integration Object, select the Object Type as Integration Object.
- b. Click Browse to display the list of integration objects.
- c. Use Integration Object Filter to filter the integration objects during selection.
- d. Optional: Click Refresh to update the current object list from the Siebel server.
- e. Select an integration object and click Finish to generate schemas for the map input and map output. During processing, the selected business service is executed and the output is sent back to the orchestration.
12. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying Retry and Delivery Options for Siebel Activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Delete Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Siebel Delete Objects activity.

**Parent topic:** [Siebel activities](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Siebel\\_delete\\_outactivity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Siebel_delete_outactivity.html)

## Using the Siebel Query Objects activity

---

Use the Siebel Query Objects activity to work with either Siebel Business Objects, Business Components, or Siebel Integration Objects.

### Before you begin

---

Ensure that you have:

- Installed the JAR files required to connect to the Siebel server. For more information, see [Installing JAR files to connect to the Siebel server](#).
- Valid connection details to connect to the Siebel server.

### About this task

---

Use this task to query either a Business Component hierarchy or an Integration Object on the Siebel server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Siebel folder contents.
2. Drag the Query Objects activity icon onto the orchestration. The Siebel Query Objects Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Siebel endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing a Siebel endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Enter the repository name in the Repository Name text box. Repository name is populated with a default value, which represents the Siebel Repository. Enter the repository name if it is not same as the default value. All the metadata needed for discovering the objects are retrieved from this repository.
11. Select one of the following objects for integration.

To work with **Business Object/Business Component**:

- a. Select the Object Type as Business Object / Business Component.
- b. Click Browse to display the list of Business Objects.
- c. Use the Business Object Filter to filter the business objects during selection.
- d. Optional: Click Refresh to update the current object list from the Siebel server.
- e. Select a Business Object from the business object list and click Next.
- f. The list of business components for the selected business object is displayed. Select a business component and click Finish to generate schemas for the map input and map output.

The Query activity retrieves the Siebel business component for the specified key in the map input. The following occurs during the Query activity:

- The keys are set on the top-level business component to search for records. If the record is not found, an error message is logged, and the job fails. If the record is found, the simple attribute values are retrieved from the top-level business component and set to the map output.  
Note: A simple PickList attribute is retrieved differently from other simple attributes. The simple PickList attribute is retrieved by obtaining the value of the PickListKey from the child picklist component. To retrieve a child picklist component, the FieldName value must be used.
- Child business components are retrieved based on the type of relationship they have with the parent business component.
- Child PickList instances are retrieved.

- If the child record is found with multi-value link and association, the attribute value is set to the parent.

To work with Integration Object:

- For Siebel Integration Object, select the Object Type as Integration Object.
  - Click Browse to display the list of integration objects.
  - Use Integration Object Filter to filter the integration objects during selection.
  - Optional: Click Refresh to update the current object list from the Siebel server.
  - Select an integration object and click Finish to generate schemas for the map input and map output. During processing, the selected business service is executed and the output is sent back to the orchestration.
- In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying Retry and Delivery Options for Siebel Activities](#).
  - Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Query Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
  - Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console (WMC). If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
  - Select the Map Outputs in the checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
  - Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Siebel Query Objects activity.

**Parent topic:** [Siebel activities](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Siebel\\_query\\_outactivity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Siebel_query_outactivity.html)

## Using the Siebel Execute Business Service activity

---

The Siebel execute business service activity is used to run a Siebel business service on the Siebel Business Applications server.

### Before you begin

---

Ensure that you have:

- Installed the JAR files required to connect to the Siebel server. For more information, see [Installing JAR files to connect to the Siebel server](#).
- The valid connection details to connect to the Siebel server.
- 

### About this task

---

The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration. The business service can be a standard business service like Siebel Contact or a custom business service where the integration object needs to be selected.

### Procedure

---

- In an active orchestration, open the Activities tab and expand the Siebel folder contents.
- Drag the Execute Business Service activity icon onto the orchestration.
- When the activity shows in the orchestration, the Siebel Execute Business Service Checklist is displayed.
- In the Checklist, click Summary.

5. Review the contents of the Activity Name field, and make the required changes.
  6. In the Checklist, click Pick Endpoint.
  7. Click Browse and use the Project Explorer dialog box to select the relevant Siebel endpoint.
  8. You can create the endpoint by clicking New and enter the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing a Siebel endpoint](#).
  9. To make any required changes to the selected endpoint configuration, click Edit to access the options in a separate window.  
Any changes you make globally affects all uses of the endpoint in active orchestrations.
  10. In the Checklist, click **Configure**.
  11. Type the repository name in the Repository Name text box. The repository name is populated with a default value, which represents the Siebel Repository. Specify the repository name if it is not same as the default value. All the metadata needed for discovering the objects are retrieved from this repository.
  12. Select the business service.
    - a. Click Browse to display the list of Business Services.
    - b. Use the Business Service Filter to filter the business services during selection.
    - c. Optional: Click **Refresh** to update the current object list from the Siebel server.
    - d. Select a Business Service from the business service list and click Next. The list of business operations for the selected business service is displayed.
      - o If the business service has a fixed integration object associated with it then after selecting the business operation, click Finish to generate the schemas for the map input/output.
      - o If the business service has no fixed integration object associated with it then after selecting the business operation click Next and select the integration objects for the input/output message.
  13. Select Map Inputs from the Checklist. The XML Schemas generated from the selected service of the Execute Business Service activity are displayed as nodes under the request input parameter in the To Activity panel.
  14. Create a map between orchestration variables and the input parameter of the activity.
- Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with input node. During run time if no value is provided for a mandatory element, the activity throws an exception which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs from the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
  16. Create a map between the output parameters and the orchestration variables.

## Results

---

You have configured the Siebel Execute Business Service activity.

**Parent topic:** [Siebel activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Siebel\\_business\\_service.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Siebel_business_service.html)

## Prerequisites for starter activities in Siebel

---

This section contains the prerequisites to configure the Siebel inbound activities.

You must create an event store in Siebel as a prerequisite for using the starter activities.

### Creating the Event Store in Siebel

---

This procedure uses the Siebel Sales Enterprise application as an example. For convenience, whenever we say Siebel application, it means Siebel Sales Enterprise application in the following chapter. IBM Events are used as the event store name in this example. This name can be changed based on the end user needs.

To create an “Event Store” and “Object” in Siebel Business Applications, perform the following procedure in Siebel tools:

1. Using New Object Wizard, create a stand-alone table CX\_IBM\_EVENT.

2. Create these columns in your new table:

Table 1. Columns for the event table

Column Name / User Name	Type	Length	Physical Type	Required	Nullable	Status
DESCRIPTION	Data (public)	255	Varchar	Â“	âœ“	Active
EVENT_ID	Data (public)	30	Varchar	âœ“	Â	Active
CONNECTOR_ID	Data (public)	255	Varchar	Â	âœ“	Active
EVENT_TYPE	Data (public)	20	Varchar	âœ“	Â	Active
OBJECT_KEY	Data (public)	255	Varchar	âœ“	Â	Active
OBJECT_NAME	Data (public)	255	Varchar	âœ“	Â	Active
PRIORITY	Data (public)	10	Number	Â	âœ“	Active
STATUS	Data (public)	20	Number	âœ“	Â	Active
XID	Data (public)	255	Varchar	âœ“	Â	Active

3. Create a new Business Component (BC) IBM Events based on your new table. All fields are single value fields.

4. In addition to the fields in BC, create a new field Event Time Stamp and map it to CREATED column in from CX\_IBM\_EVENT. The Type of this field should be DTTYPE\_UTCDATETIME.

5. Create a new Business Object (BO) IBM Events.

6. Associate IBM Events BC to IBM Events BO.

7. Create IBM Event List Applet based on IBM Events BC.

8. Create IBM Event List View based on IBM Events BO.

9. Create IBM Events Screen and associate it to the IBM Event List View in Screen View.

10. Create a page tab as follows:

a. Access the Application > Siebel Sales Enterprise > Page tab.

b. Right-click and select New Record from the menu.

c. Enter IBM Events as the screen name and IBM Events for the Text-String Override.

d. Leave the inactive field unchecked

11. Create a screen menu item as follows:

a. Access the Application > Siebel Sales Enterprise > Screen Menu Item.

b. Right-click and select new record.

c. Enter IBM Events as the screen name and IBM Events for the Textâ€“String Override.

d. Leave the inactive field unchecked.

12. Create a new Business Object Schema Version for IBM project and associate it to Schema Version BC.

13. Apply the physical schema for the new tables in your local database. You can do this by querying on the new table,

CX\_IBM\_EVENT. Select the current query to create a physical schema. Make sure that you leave the table space and index space blank.

14. Activate the new schema using Activate.

15. Add or modify the Siebel VB or e-scripts for the BC that corresponds to the business objects used at your site. Siebel scripts triggers event notification for the configured objects (sample scripts are in the <studio\_root>/etc/Siebel folder). In the Siebel script, ensure that the event will not get created for the connector user name to prohibit the ping-pong effect.

16. Compile the updated and locked projects in your local database to create a new Siebel repository (.srf) file.

17. Open Siebel Sales Enterprise in your local database. You need to have administrative privileges to perform the following:

a. Create a new view called IBM Event List View.

b. Create a new responsibility called IBM Responsibility for IBM Event List View.

c. Add the employees or teams who are responsible for receiving events to the newly created IBM Responsibility.

d. Create the IBMCONN (or your connector user name) user and add it to IBM Responsibility and Administrative Responsibility.

18. Test the application in your local environment. Ensure that you have the visibility to IBM Event List View and that an event is generated in the view after you create a record in supported object. For example, create a new account in Siebel and check if a new account event appears in the IBM Event List View.

19. Check-in the new and updated projects into your development server.

20. Activate the new tables in the development database.

21. Compile a new Siebel.srf file and deploy it on the server.

You have successfully created the event store in the Siebel server.

**Parent topic:** [Siebel activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Siebel\\_prerequisites\\_inbound\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Siebel_prerequisites_inbound_activity.html)

## Using the Siebel Get Created Objects activity

---

Use the Get Created Objects activity to poll for Siebel Business Objects, Business Components, or Siebel Integration Objects from the Siebel server.

### Before you begin

---

Ensure that you have:

- Installed the necessary vendor software JAR files.
- The valid connection details to connect to the Siebel server.
- Configured the *EventStore* business objects and triggers to generate events. For more information, see [Prerequisites for starter activities in Siebel](#).

### About this task

---

Use this task to poll for either a Business Component hierarchy or an Integration Object, created on the Siebel server.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Siebel folder contents.
2. Drag the Get Created Objects activity icon onto the orchestration. The Siebel Get Created Objects Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Siebel endpoint.
7. You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing a Siebel endpoint](#).
8. To make any required changes to the selected endpoint configuration, click Edit to access the options in a separate window.  
Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Specify the repository name in the Repository Name text box. Repository name is populated with a default value, which represents the Siebel Repository. Specify the repository name if it is not the same as the default value. All the metadata needed for discovering the objects are retrieved from this repository.
11. Specify the Event Store name configured in the Siebel server. The activity polls this Event Store for new events.
12. Select one of the following objects for integration.

To work with **Business Object/Business Component**:

- a. Select the Object Type as Business Object / Business Component.
- b. Click Browse to display the list of Business Objects.
- c. Use the Business Object Filter to filter the business objects during selection.
- d. Optional: Click Refresh to update the current object list from the Siebel server.
- e. Select a Business Object from the business object list and click Next.
- f. The list of business components for the selected business object is displayed. Select a business component and click Finish to generate schemas for the map output.

- g. If the selected business component is a child of a parent business component, then both the parent and the child business components are generated with a relation between them.

To work with Integration Object:

- a. Select the Object Type as Integration Object.
- b. Click Browse to display the list of integration objects.
- c. Use Integration Object Filter to filter the integration objects during selection.
- d. Optional: Click Refresh to update the object list from the Siebel server.
- e. Select an integration object and click Finish to generate schemas for the map output.

13. In the Checklist, click Retry. Review the default settings and make the required changes. Similarly, configure the **Delivery Rules** panel. For more information, see [Specifying Retry and Delivery Options for Siebel Activities](#).

The activity polls the event store at configured interval for create events and fetches the actual object for that event. This object is sent to the orchestration. After processing, the event is marked as archived in the event store.

14. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.

15. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Siebel Get Create Objects activity.

**Parent topic:** [Siebel activities](#)

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## Using the Siebel Get Updated Objects activity

---

Use the Get Updated Objects activity to poll for events that were updated on the Siebel Sever.

### Before you begin

---

Ensure that you have:

- Installed the necessary vendor software JAR files.
- The valid connection details to connect to the Siebel server.
- Configured the *EventStore* business objects and triggers to generate events. For more information, see [Prerequisites for starter activities in Siebel](#)

### About this task

---

Use this task to get updated Business Component hierarchy or updated Integration Objects on the Siebel server.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Siebel folder contents.
  2. Drag the Get Updated Objects activity icon onto the orchestration. The Siebel Get Updated Objects Checklist is displayed.
  3. In the Checklist, click Summary.
  4. Review the contents of the Activity Name field, and make the required changes.
  5. In the Checklist, click **Pick Endpoint**.
  6. Click Browse and use the Project Explorer dialog box to select the relevant Siebel endpoint.
  7. You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.
- Note: For more information, see [Creating or editing a Siebel endpoint](#).

8. To make any required changes to the selected endpoint configuration, click **Edit** to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click **Configure**.
10. Enter the repository name in the **Repository Name** text box. Repository name is populated with a default value, which represents the Siebel Repository. Enter the repository name if it is not same as the default value. All the metadata needed for discovering the objects are retrieved from this repository.
11. Specify the **Event Store** name which is configured in the Siebel server. The activity polls this Event Store for new events.
12. Select one of the following objects for integration.

To work with **Business Object/Business Component**:

- a. Select the Object Type as Business Object / Business Component.
- b. Click **Browse** to display the list of Business Objects.
- c. Use the **Business Object Filter** to filter the business objects during selection.
- d. Optional: Click **Refresh** to update the current object list from the Siebel server.
- e. Select a Business Object from the business object list and click **Next**.
- f. The list of business components for the selected business object is displayed. Select a business component and click **Finish** to generate schemas for the map input and map output.
- g. If the selected business component is a child of a parent business component, then both the parent and the child business components are generated with a relation between them.

To work with **Integration Object**:

- a. Select the Object Type as Integration Object.
- b. Click **Browse** to display the list of integration objects.
- c. Use **Integration Object Filter** to filter the integration objects during selection.
- d. Optional: Click **Refresh** to update the object list from the Siebel server.
- e. Select an integration object and click **Finish** to generate schemas for the map output.
13. In the Checklist, click **Retry**. Review the default settings and make the required changes. Similarly, configure the **Delivery Rules** panel. For more information, see [Specifying Retry and Delivery Options for Siebel Activities](#)
14. The activity polls the event store at configured intervals for update events, and fetches the actual object for that event. This object is sent to the orchestration. After processing, the event is marked as archived in the event store.
15. Select the **Map Outputs** in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the **From Activity** panel.
16. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Siebel Get Updated Objects activity.

**Parent topic:** [Siebel activities](#)

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## Using the Siebel Get Deleted Objects activity

---

Use the Get Deleted Objects activity to poll for deleted Siebel Business Objects, Business Components, or Siebel Integration Objects from the Siebel server.

### Before you begin

---

Ensure that you have:

- Installed the necessary vendor software JAR files.
- The valid connection details to connect to the Siebel server.
- Configured the *EventStore* business objects and triggers to generate events. For more information, see [Prerequisites for starter activities in Siebel](#)

## About this task

---

Use this task to poll for events that are generated because of a delete operation performed on the Siebel Business Application server.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Siebel folder contents.
2. Drag the Get Deleted Objects activity icon onto the orchestration. The Siebel Get Deleted Objects Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Siebel endpoint.
7. You can create the endpoint by clicking New and enter the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating or editing a Siebel endpoint](#).
8. To make any required changes to the selected endpoint configuration, click Edit to access the options in a separate window.  
Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Enter the repository name in the Repository Name text box. Repository name is populated with a default value, which represents the Siebel Repository. Specify the repository name if it is not same as the default value. All the metadata needed for discovering the objects are retrieved from this repository.
11. Specify the event store name which is configured in the Siebel server. The activity polls this event store for new events.
12. Select one of the following objects for integration.

To work with **Business Object/Business Component**:

- a. Select the Object Type as Business Object / Business Component.
- b. Click Browse to display the list of Business Objects.
- c. Use the Business Object Filter to filter the business objects during selection.
- d. Optional: Click Refresh to update the current object list from the Siebel server.
- e. Select a Business Object from the business object list and click Next.
- f. The list of business components for the selected business object is displayed. Select a business component and click Finish to generate schemas for the map input and map output.
- g. If the selected business component is a child of a parent business component, then both the parent and the child business components are generated with a relation between them.

To work with Integration Object:

- a. Select the Object Type as Integration Object.
- b. Click Browse to display the list of integration objects.
- c. Use Integration Object Filter to filter the integration objects during selection.
- d. Optional: Click Refresh to update the object list from the Siebel server.
- e. Select an integration object and click Finish to generate schemas for the map output.
13. In the Checklist, click Retry. Review the default settings and make the required changes. Similarly, configure the **Delivery Rules** panel. For more information, see [Specifying Retry and Delivery Options for Siebel Activities](#)
14. The activity polls the event store at configured interval for delete events and fetches the actual object for that event. This object is sent to the orchestration. After processing, the event is marked as archived in the event store.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Siebel Get Deleted Objects activity.

**Parent topic:** [Siebel activities](#)

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[Feedback](#) | [Notices](#)

## Specifying Retry and Delivery Options for Siebel Activities

Specifying the Retry and Delivery parameters is one of the tasks to configure a Siebel activity configuration.

### About this task

This section contains the procedure for configuring the retry options for Siebel outbound and inbound activities.

### Procedure

1. Select the Retry task from the Checklist. The retry pane is displayed.
2. Configure the retry options for connecting to a Siebel server as described in the following table.

Table 1. Retry options

Retry Fields	Description
Wait -- seconds between each retry .	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the Siebel server.
Try to connect -- time s before failing.	Specifies the retry count – the maximum number of times the Integration Appliance attempts to establish a connection to the Siebel server before issuing an error and stopping the processing of the current orchestration job. Note: If you deploy an orchestration that contains the inbound or outbound Siebel activity and the Integration Appliance cannot connect to the specified Siebel server, the Integration Appliance logs the connections errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3. The first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.

**Parent topic:** [Siebel activities](#)

**Related tasks:**

[Using the Siebel Receive activity](#)

[Using the Siebel Invoke activity](#)

## Specifying the delivery rules options for Siebel inbound activities

### About this task

This section contains the procedure for configuring the delivery rule options for Siebel inbound activities.

### Procedure

1. Select the Delivery Rules task from the Checklist. The delivery rules pane is displayed.
2. Configure the delivery rules options to select the activity's behavior as described in the following table.

Table 2. Delivery rules

Delivery Rules Fields	Description
-----------------------	-------------

<b>Delivery Rules Fields</b>	<b>Description</b>
Poll for changes every _____ days/hours/minutes/seconds	Specifies the time interval to poll for objects in the Siebel server. (For example, the Get created object activity polls for create objects at the specified time internal.) Time can be selected in the format days, hours, minutes, or seconds.
Fetch _____ rows per poll	Specifies how many objects or components the activity should retrieve from the Siebel server in each poll cycle.
<b>Delivery Messages</b>	
ATMOST_ONCE	A non-persistent mode in which a Siebel business object or business component is either delivered once or not delivered at all.
ATLEAST_ONCE	A persistent mode, in which the Siebel business objects or business components are not lost. As a result, there are chances that the orchestration can receive events once or more than once.

---

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## Siebel properties file

---

The Siebel connector uses Siebel API (Javaâ„¢ Data Bean) to interact with the Siebel server. Siebel API also provides a way to configure the connection settings on the client side. The `siebel.properties` file located in your classpath, can be used to provide default parameters for client applications connecting to Siebel applications using the Java Data Bean.

The following table describes the properties of the `siebel.properties` file:

Table 1. Siebel.properties file description

<b>Property Type</b>	<b>Property</b>	<b>Description</b>
Siebel Connection Manager Connection properties	<code>siebel.con mgr.txtimeout</code>	Indicates the transaction timeout (in milliseconds). The default value is 600000 = 10 minutes.
Â	<code>siebel.con mgr.poolsize</code>	Indicates the connection pool size. Connection pool maintains a set of connections to a specific server process. the default value is 2. Max connection pool size is 500.
Â	<code>siebel.con mgr.sesstimeout</code>	Indicates the transaction timeout (in seconds) on the client side. The default value is 2700 = 45 minutes.
Â	<code>siebel.con mgr.retry</code>	Indicates the number of open session retries. The default value is 3.
Â	<code>siebel.con mgr.jce</code>	Indicates the usage of Java Cryptography Extension. 1 for jce usage and 0 for no usage.
Â	<code>siebel.con mgr.virtualhosts</code>	Indicates the list of virtual servers representing a group of similar servers that perform the same function, for example, call center functions.  An incoming login for the call center Virtual Server tries servers from the list in a round-robin fashion. An example of such a list is as follows:  <code>VirtualServer1=sid1:host:port,sid2:host:port...;VirtualServer2=...</code> , where Virtual Servers is an assigned list of real Siebel Servers with host names and port numbers (of the local SCB).

<b>Property Type</b>	<b>Property</b>	<b>Description</b>
Siebel Generated code for JCA/JDB properties	siebel.connection.string siebel.user.name	Indicates the Siebel connection string. Indicates the user name to be used for logging on to Object Manager.
	siebel.user.password	Indicates the password to be used for logging on to Object Manager.
	siebel.user.language	Indicates the preferred language of the user.
	siebel.user.encrypted	Indicates whether the user name and password are encrypted.
	siebel.jdbc.classname	Indicates the default JDB classname.
Java System Properties Note: Java System Properties are System Properties, not Siebel Properties.	file.encoding	Indicates the code page on the client side. For example, cp1252, utf8, unicodeBig, cp942.

The following is a sample siebel.properties file:

```
siebel.conmgr.txttimeout = 3600
siebel.conmgr.poolsize = 5
siebel.conmgr.sesstimeout = 300000
```

**Parent topic:** [Siebel activities](#)

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## Silver Pop Activities

- [Creating or editing an endpoint for Silverpop Activity.](#)
- [Activity: Add Contact](#)
- [Activity: Add Lead](#)
- [Activity: Update Contact](#)
- [Activity: Update Lead](#)
- [Activity: Select Contact](#)
- [Activity: Select Lead](#)
- [Activity: Remove Contact](#)
- [Activity: Remove Lead](#)

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## Creating or editing an endpoint for Silverpop Activity.

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Endpoints provide the configuration information that Studio and the Integration Appliance use to connect to a Silverpop.

- [Selecting or editing a Silverpop endpoint](#)

**Parent topic:** [Silver Pop Activities](#)

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## Selecting or editing a Silverpop endpoint

---

1. In the Create Endpoint or Edit Endpoint pane, Configure the Silverpop Connection details as described in the following table.

Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project. The edits are global, not local.

2. Click Test Connection to confirm that the connection details are valid and you are able to connect to the Silverpop server successfully.

3. Click OK.

*Table: Connection properties*

Field Name	Description
Application URL	Login URL for Silverpop portal
Authentication URL	URL Endpoint to connect and generate Access Token.
Access Token	Access Token as specified by user for OAuth based authentication.
Refresh Token	Refresh Token as specified by user in case of OAuth based authentication.
Client Id	Client Id as specified by user in case of OAuth based authentication
Client Secret	Client Secret as specified by user in case of OAuth based authentication
Proxy Host	Proxy host name of the Proxy Server to connect. (Optional)
Proxy Port	Proxy password of the Proxy Server to connect. (Optional)
Proxy Username	Proxy Username of the Proxy Server to connect. (Optional)
Proxy Password	Proxy Password of the Proxy Server to connect. (Optional)

Note: To generate the access token, check Silverpop documentation relating to "Authentication with the APIs : Authentication

Method: OAuth 2.0 Granted Access â€œ

**Parent topic:** [Creating or editing an endpoint for Silverpop Activity.](#)

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## Activity: Add Contact

---

This interface adds one new contact to an existing database. If your database has a key other than Email, you must include all unique key columns with their corresponding name/value pairs. If adding and/or updating contacts in a database that has no Unique Identifier defined, one or more Sync Fields must be specified in order to look up the contact.

- [Add the Add Contact Activity in the orchestration](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Silver Pop Activities](#)

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## Add the Add Contact Activity in the orchestration

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Silverpop folder.
3. Drag the Silverpop "Add Contact" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Silverpop endpoint](#)
  - [Configuring the Activity](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Add Contact](#)

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## Creating, selecting, or editing a Silverpop endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
  2. Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Add Contact Activity in the orchestration](#)

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## Configuring the Activity

---

1. Click on the browse button for the Object Type to browse the list of Databases available in the Silverpop Server to add the Contact.
2. Browse with obtain the list of Databases along with their List Id as present in the Silverpop Server connected.
3. Select the required database by clicking on the database name.
4. Once selected the fields corresponding to the database will be displayed in the Object Field Preferences Section.
5. Here we can unselect/select the fields as required. Mandatory fields cannot be unselected.

**Parent topic:** [Add the Add Contact Activity in the orchestration](#)

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## Mapping the inputs of the Activity

---

- 1.
2. The mandatory parameters for this Activity vary depending on the custom fields of the database.

**Parent topic:** [Add the Add Contact Activity in the orchestration](#)

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## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Add Contact Activity

Name	Type	R e q u i r	Description

		e d	
CR M- Ena ble- Syn c	String	N o	Yes or No type whether to sync the contact to your CRM system or not.
CRE ATE D_F RO M	Integer	Y e s	Value indicating the way in which you are adding the contact to the system. Values include: 0 â€“ Imported from a database 1 â€“ Added manually 2 â€“ Opted in 3 â€“ Created from tracking database
SEN D_A UTO REP LY	Boolean	N o	If the database has an autoresponder associated with it and the SEND_AUTOREPLY element is set to <b>true</b> , Engage sends the confirmation when the contact is added to the database.
UPD ATE _IF _FO UN D	Boolean	N o	If the UPDATE_IF_FOUND element is set to <b>true</b> , attempting to add a contact with a duplicate key will result in an update to their record. If the database has no Unique Identifier and UPDATE_IF_FOUND is set to <b>true</b> , attempting to add a contact with duplicate SYNC_FIELDS will result in an update to the record.
ALL OW _HT ML	Boolean	N o	If ALLOW_HTML is set to <b>true</b> , Engage will interpretâ€”and properly renderâ€”HTML within a value in the text field. The default value is <b>false</b> and will convert HTML tags to character entity references (and tags display as literal characters in the text field).
VIS ITO R_K EY	String	N o	Allows specifying a visitor key to associate a contact to a previously unknown when using the Web Tracking feature.
CO NTA CT_ LIS TS	Integer	N o	If included, the contact will be added to all specified contact lists in addition to a database.  Child Element : The contact list id that contact will be added to.
COL UM N	Depends on Each column name type.	Y e s	XML nodes defining the column name and value for fields being added or updated. <b>Note:</b> Each node must have a Name tag and a Value tag. If the database has a key that is not Email, Unique key columns must also be part of the submission with column names and values.  Child Element :  Name : Defines the field name. The name of the Email column must be EMAIL. The name of the email type column must be EMAIL_TYPE  Value : Contains the field value
SYN C_F IEL DS	Depends on Each column name type.	N o	Required if the database has no Unique Identifier and UPDATE_IF_FOUND is set to true. Used to look up a contact in a database that has no Unique Identifier defined. Include a SYNC_FIELDS element for each database column that defines a unique contact. Note: If more than one contact is found matching the lookup columns, the oldest contact will be updated. Sync fields will be ignored if the database has a key.  NAME: Defines the field name.  VALUE : Contains the field value.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Silverpop Orchestration](#)

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[Feedback](#) | [Notices](#)

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## Mapping the outputs of the Activity

---

Create a map between the Silverpop output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
SUCCESS	Boolean	Yes	<b>True</b> if successful.
RecipientId	String	Yes	ID of added or updated contact.
ORGANIZATION_ID	String	No	Identifies your Engage Organization.
VISITOR_ASSOCIATION	String	No	Indicates whether the specified Visitor ID is valid and was associated to a profile.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Note about Deploying a Silverpop Orchestration

---

The project for Silverpop connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Silverpop activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Activity: Add Lead

---

This interface adds one new Lead to an existing database. If your database has a key other than Email, you must include all unique key columns with their corresponding name/value pairs. If adding and/or updating Leads in a database that has no Unique Identifier defined, one or more Sync Fields must be specified in order to look up the Lead.

- [Add the Add Lead Activity in the orchestration](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Add the Add Lead Activity in the orchestration

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Silverpop folder.
3. Drag the Silverpop "Add Lead" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Silverpop endpoint](#)
  - [Configuring the Activity](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Add Lead](#)

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## Creating, selecting, or editing a Silverpop endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Add Lead Activity in the orchestration](#)

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## Configuring the Activity

---

1. Click on the browse button for the Object Type to browse the list of Databases available in the Silverpop Server to add the Lead.
2. Browse with obtain the list of Databases along with their List Id as present in the Silverpop Server connected.
3. Select the required database by clicking on the database name.
4. Once selected the fields corresponding to the database will be displayed in the Object Field Preferences Section.
5. Here we can unselect/select the fields as required. Mandatory fields cannot be unselected.

**Parent topic:** [Add the Add Lead Activity in the orchestration](#)

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## Mapping the inputs of the Activity

---

- 1.
2. The mandatory parameters for this Activity vary depending on the custom fields of the database.

**Parent topic:** [Add the Add Lead Activity in the orchestration](#)

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## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Add Lead Activity

Name	Type	Required	Description
CRM-Enabling-Sync	String	No	Yes or No type whether to sync the Lead to your CRM system or not.
CREATE_FRO_M	Integer	Yes	Value indicating the way in which you are adding the Lead to the system. Values include: 0 – Imported from a database 1 – Added manually 2 – Opted in 3 – Created from tracking database

SEN_D_AUTO_REPLY	Boolean	N o	If the database has an autoresponder associated with it and the SEND_AUTOREPLY element is set to <b>true</b> , Engage sends the confirmation when the Lead is added to the database.
UPDATE_IF_FOUND	Boolean	N o	If the UPDATE_IF_FOUND element is set to <b>true</b> , attempting to add a Lead with a duplicate key will result in an update to their record. If the database has no Unique Identifier and UPDATE_IF_FOUND is set to <b>true</b> , attempting to add a Lead with duplicate SYNC_FIELDS will result in an update to the record.
ALLOW_HTML	Boolean	N o	If ALLOW_HTML is set to <b>true</b> , Engage will interpret and properly render HTML within a value in the text field. The default value is <b>false</b> and will convert HTML tags to character entity references (and tags display as literal characters in the text field).
VISITOR_KEY	String	N o	Allows specifying a visitor key to associate a Lead to a previously unknown when using the Web Tracking feature.
CONTACT_LISTS	Integer	N o	If included, the Lead will be added to all specified Lead/Contact lists in addition to a database.  Child Element : The contact list id that Lead will be added to.
COLUMN	Depends on Each column name type.	Y e s	XML nodes defining the column name and value for fields being added or updated. <b>Note:</b> Each node must have a Name tag and a Value tag. If the database has a key that is not Email, Unique key columns must also be part of the submission with column names and values.  Child Element :  Name : Defines the field name. The name of the Email column must be EMAIL. The name of the email type column must be EMAIL_TYPE  Value : Contains the field value
SYNC_FIELDS	Depends on Each column name type.	N o	Required if the database has no Unique Identifier and UPDATE_IF_FOUND is set to true. Used to look up a Lead in a database that has no Unique Identifier defined. Include a SYNC_FIELDS element for each database column that defines a unique Lead. Note: If more than one Lead is found matching the lookup columns, the oldest Lead will be updated. Sync fields will be ignored if the database has a key.  NAME: Defines the field name.  VALUE : Contains the field value.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Silverpop Orchestration](#)

**Parent topic:** [Activity: Add Lead](#)

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## Mapping the outputs of the Activity

---

Create a map between the Silverpop output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
SUCCESS	Boolean	Yes	<b>True</b> if successful.
RecipientId	String	Yes	ID of added or updated Lead
ORGANIZATION_ID	String	No	Identifies your Engage Organization.
VISITOR_ASSOCIATION	String	No	Indicates whether the specified Visitor ID is valid and was associated to a profile.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_mapping\\_the\\_outputs\\_of\\_the\\_act1.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_mapping_the_outputs_of_the_act1.html)

## Note about Deploying a Silverpop Orchestration

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The project for Silverpop connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Silverpop activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_note\\_about\\_deploying\\_a\\_silverp1.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_note_about_deploying_a_silverp1.html)

## Activity: Update Contact

---

This interface updates a contact in an existing database. Use of the optional **OPT\_OUT** allows this operation to add a currently opted-out contact back into the database. If your database has a key other than Email, you must include all unique key columns with their corresponding name/value pairs. If updating contacts in a database that has no Unique Identifier defined, one or more Sync Fields must be specified in order to look up the contact.

- [Add the Update Contact Activity in the orchestration:](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Silver Pop Activities](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_activity\\_\\_update\\_contact.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_activity__update_contact.html)

## Add the Update Contact Activity in the orchestration:

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Silverpop folder.

3. Drag the Silverpop "Update Contact" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.

- [Creating, selecting, or editing a Silverpop endpoint](#)
- [Configuring the Activity](#)
- [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Update Contact](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_add\\_the\\_update\\_contact\\_activit.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_add_the_update_contact_activit.html)

## [Creating, selecting, or editing a Silverpop endpoint](#)

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Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Update Contact Activity in the orchestration:](#)

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[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_creating\\_\\_selecting\\_\\_or\\_editin2.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_creating__selecting__or_editin2.html)

## [Configuring the Activity](#)

---

1. Click on the browse button for the Object Type to browse the list of Databases available in the Silverpop Server to Update the Contact.
2. Browse with obtain the list of Databases along with their List Id as present in the Silverpop Server connected.
3. Select the required database by clicking on the database name.
4. Once selected the fields corresponding to the database will be displayed in the Object Field Preferences Section.
5. Here we can unselect/select the fields as required. Mandatory fields cannot be unselected.

**Parent topic:** [Add the Update Contact Activity in the orchestration:](#)

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[Feedback](#) | [Notices](#)

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## Mapping the inputs of the Activity

**Parent topic:** [Add the Update Contact Activity in the orchestration](#):

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## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

The mandatory parameters for this Activity vary depending on the custom fields of the database.

Update Contact Activity

Name	Type	Required	Description
CRM-Enable-Sync	String	No	Yes or No type whether to sync the contact to your CRM system or not.
OLD_EMAIL	String	No	Old email address for the contact.
RECIPIENT_ID	String	No	The Recipient Id may be provided with a LIST_ID to look up a contact. No key fields are required when passing the Recipient Id.
ENCODED_RECIPIENT_ID	String	No	The encoded Recipient Id may be provided with a LIST_ID to look up a contact. No key fields are required when passing the Recipient Id. <b>Note:</b> The encoded Recipient Id can be obtained from a sent mailing when %%RECIPIENT_ID%% is placed in the mailing body.
SEND_AUTOREPLY	Boolean	No	If the database has an autoresponder associated with it and the SEND_AUTOREPLY element is set to <b>true</b> , Engage sends the confirmation when the contact is added to the database.
ALLOW_HTML	Boolean	No	If ALLOW_HTML is set to <b>true</b> , Engage will interpret and properly render HTML within a value in the text field. The default value is <b>false</b> and will convert HTML tags to character entity references (and tags display as literal characters in the text field).
VISITOR_KEY	String	No	Allows specifying a visitor key to associate a contact to a previously unknown when using the Web Tracking feature.
OPT_OUT	Boolean	No	<b>OPT_OUT</b> child element allows this operation to add a currently opted-out contact back into the database.
COLUMN	Depends on Each	Yes	XML nodes defining the column name and value. Note: Each node must have a <b>Name</b> tag and a <b>Value</b> tag. If the database has a key that is not Email, Unique key columns must also be part of the submission with column names and values. If changing a

	column name type.		value of one of the SYNC_FIELDS, the new value should be included as a COLUMN node.  NAME  Defines the field name.  VALUE  Contains the field value.
SYNC_FIELDS	Depends on Each column name type.	No	Required if the database has no Unique Identifier. Used to look up a contact in a database that has no Unique Identifier defined. Include a SYNC_FIELD element for each column that defines a unique contact. <b>Note:</b> If more than one contact is found matching the lookup columns, the oldest contact will be updated.  NAME: Defines the field name.  VALUE : Contains the field value.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Silverpop Orchestration](#)

**Parent topic:** [Activity: Update Contact](#)

[Feedback](#) | [Notices](#)

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## Mapping the outputs of the Activity

Create a map between the Silverpop output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
SUCCESS	Boolean	Yes	<b>True</b> if successful.
RecipientId	String	Yes	ID of the updated contact. If an encoded Recipient Id is specified in the request, the Recipient Id in the response will be encoded.
ORGANIZATION_ID	String	No	Identifies your Engage Organization.
VISITOR_ASSOCIATION	String	No	Indicates whether the specified Visitor ID is valid and was associated to a profile.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

[Feedback](#) | [Notices](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_mapping\\_the\\_outputs\\_of\\_the\\_act2.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_mapping_the_outputs_of_the_act2.html)

## Note about Deploying a Silverpop Orchestration

The project for Silverpop connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Silverpop activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_note\\_about\\_deploying\\_a\\_silverp2.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_note_about_deploying_a_silverp2.html)

## Activity: Update Lead

---

This interface updates a Lead in an existing database. Use of the optional **OPT\_OUT** allows this operation to add a currently opted-out Lead back into the database. If your database has a key other than Email, you must include all unique key columns with their corresponding name/value pairs. If updating Lead in a database that has no Unique Identifier defined, one or more Sync Fields must be specified in order to look up the Lead.

- [Add the Update Lead Activity in the orchestration](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Silver Pop Activities](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_activity\\_\\_update\\_lead.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_activity__update_lead.html)

## Add the Update Lead Activity in the orchestration

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Silverpop folder.
3. Drag the Silverpop "Update Lead" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Silverpop endpoint](#)
  - [Configuring the Activity](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Update Lead](#)

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[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_add\\_the\\_update\\_lead\\_activity\\_i.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_add_the_update_lead_activity_i.html)

## Creating, selecting, or editing a Silverpop endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Update Lead Activity in the orchestration](#)

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[Feedback](#) | [Notices](#)

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## Configuring the Activity

---

1. Click on the browse button for the Object Type to browse the list of Databases available in the Silverpop Server to add the Lead.
2. Browse with obtain the list of Databases along with their List Id as present in the Silverpop Server connected.
3. Select the required database by clicking on the database name.
4. Once selected the fields corresponding to the database will be displayed in the Object Field Preferences Section.
5. Here we can unselect/select the fields as required. Mandatory fields cannot be unselected.

**Parent topic:** [Add the Update Lead Activity in the orchestration](#)

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[Feedback](#) | [Notices](#)

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## Mapping the inputs of the Activity

---

- 1.
2. The mandatory parameters for this Activity vary depending on the custom fields of the database.

**Parent topic:** [Add the Update Lead Activity in the orchestration](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_mapping\\_the\\_inputs\\_of\\_the\\_acti3.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_mapping_the_inputs_of_the_acti3.html)

**Click on Map Input link in Configure Activity section displayed below the orchestration.**

---

## Update Lead Activity

Name	Type	Required	Description
CRM-Enable-Sync	String	No	Yes or No type whether to sync the Lead to your CRM system or not.
OLD_EMAIL	String	No	Old email address for the Lead.
RECIPIENT_ID	String	No	The Recipient Id may be provided with a LIST_ID to look up a Lead. No key fields are required when passing the Recipient Id.
ENCODED_RECIPIENT_ID	String	No	The encoded Recipient Id may be provided with a LIST_ID to look up a Lead. No key fields are required when passing the Recipient Id. <b>Note:</b> The encoded Recipient Id can be obtained from a sent mailing when %%RECIPIENT_ID%% is placed in the mailing body.
SEND_AUTOREPLY	Boolean	No	If the database has an autoresponder associated with it and the SEND_AUTOREPLY element is set to <b>true</b> , Engage sends the confirmation when the Lead is added to the database.
ALLOW_HTML	Boolean	No	If ALLOW_HTML is set to <b>true</b> , Engage will interpret and properly render HTML within a value in the text field. The default value is <b>false</b> and will convert HTML tags to character entity references (and tags display as literal characters in the text field).
VISITOR_KEY	String	No	Allows specifying a visitor key to associate a Lead to a previously unknown when using the Web Tracking feature.
OPT_OUT	Boolean	No	<b>OPT_OUT</b> child element allows this operation to add a currently opted-out Lead back into the database.
COLUMN	Depends on Each column name type.	Yes	XML nodes defining the column name and value. Note: Each node must have a <b>Name</b> tag and a <b>Value</b> tag. If the database has a key that is not Email, Unique key columns must also be part of the submission with column names and values. If changing a value of one of the SYNC_FIELDS, the new value should be included as a COLUMN node.  NAME Defines the field name.  VALUE Contains the field value.
SYNC_FIELDS	Depends on Each column name type.	No	Required if the database has no Unique Identifier. Used to look up a Lead in a database that has no Unique Identifier defined. Include a SYNC_FIELD element for each column that defines a unique Lead. <b>Note:</b> If more than one Lead is found matching the lookup columns, the oldest Lead will be updated.  NAME: Defines the field name.  VALUE : Contains the field value.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Silverpop Orchestration](#)

**Parent topic:** [Activity: Update Lead](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_click\\_on\\_map\\_input\\_link\\_in\\_con3.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_click_on_map_input_link_in_con3.html)

## Mapping the outputs of the Activity

---

Create a map between the Silverpop output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
SUCCESS	Boolean	Yes	<b>True</b> if successful.
RecipientId	String	Yes	ID of added or updated Lead
ORGANIZATION_ID	String	No	Identifies your Engage Organization.
VISITOR_ASSOCIATION	String	No	Indicates whether the specified Visitor ID is valid and was associated to a profile.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Note about Deploying a Silverpop Orchestration

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The project for Silverpop connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Silverpop activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Activity: Select Contact

---

This activity retrieves the information about a contact in a database. If your database has a key other than Email, you must include all unique key columns with their corresponding name/value pairs. If your database has no Unique Identifier defined, one or more columns must be specified in order to look up the contact. If both Recipient Id and Visitor Key are provided, Recipient Id is used to lookup a contact.

- [Add the Select Contact Activity in the orchestration](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Silver Pop Activities](#)

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## Add the Select Contact Activity in the orchestration

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Silverpop folder.
3. Drag the Silverpop "Select Contact" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Silverpop endpoint](#)
  - [Configuring the Activity](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Select Contact](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_add\\_the\\_select\\_contact\\_activit.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_add_the_select_contact_activit.html)

## Creating, selecting, or editing a Silverpop endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Select Contact Activity in the orchestration](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_creating\\_\\_selecting\\_\\_or\\_editin4.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_creating__selecting__or_editin4.html)

## Configuring the Activity

---

1. Click on the browse button for the Object Type to browse the list of Databases available in the Silverpop Server to Update the Contact.
2. Browse will obtain the list of Databases along with their List Id as present in the Silverpop Server connected.
3. Select the required database by clicking on the database name.
4. Once selected the fields corresponding to the database will be displayed in the Object Field Preferences Section.
5. Here we can unselect/select the fields as required. Mandatory fields cannot be unselected.

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## Mapping the inputs of the Activity

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## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

The mandatory parameters for this Activity vary depending on the custom fields of the database.

Select Contact Activity

Name	Type	Required	Description
EMAIL	String	No	The contact email address to look up. <b>Note:</b> When using a Non-Email Key or No-Key database, this element is not required
RECIPIENT_ID	String	No	The Recipient Id may be provided with a LIST_ID to look up a contact. No key fields are required when passing the Recipient Id.
ENCODED_RECIPIENT_ID	String	No	The encoded Recipient Id may be provided with a LIST_ID to look up a contact. No key fields are required when passing the encoded Recipient Id.
VISITOR_KEY	String	No	The Silverpop Web Tracking visitor key may be provided with a LIST_ID to look up a contact. No key fields are required when passing the Silverpop Web Tracking Visitor key. The Silverpop Web Tracking Visitor key is available in the Web Tracking cookie stored in a contact's browser settings.
RETURN_CONTACT_LISTS	Boolean	No	Indicates whether to return all Contact Lists which the contact belongs to. Valid values are: true false

COLU MN	Depends on Each column name type.	Y es	Required if the database has a key other than Email or no Unique Identifier. XML nodes defining the column name and value used to look up a contact in a database. Ignored for regular email key databases. <b>Note:</b> Unique key columns must be part of the submission with column names and values. <b>Note:</b> If more than one contact is found matching the lookup columns, the oldest contact will be returned.  Name  Specifies the field name of the unique key for the database.  Value  Specifies the field value for the field name of the unique key for the database.
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- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Silverpop Orchestration](#)

**Parent topic:** [Activity: Select Contact](#)

#### [Feedback | Notices](#)

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## Mapping the outputs of the Activity

Create a map between the Silverpop output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Re qui red	Description
SUCCESS	Boolean	Yes	<b>True</b> if successful.
EMAIL	String	Yes	Email address for the contact.
Email	String	Yes	Email address for the contact. <b>Note:</b> At the time of this writing, email is included twice in the response.
RecipientId	String	Yes	Internal unique ID for each contact. If an encoded Recipient Id is specified in the request, the Recipient Id in the response will be encoded.
EmailType	String	Yes	Value indicating the preferred email type for the selected contact.  0 – HTML  1 – Text
LastModified	String	Yes	Last time the Contact record was modified.
CreatedFrom	String	Yes	Value indicating the way in which Engage added the selected contact to the system. 0 – Imported from a database  1 – Manually added 2 – Opted in  3 – Created from tracking database
OptedIn	Boolean	Yes	Contact's opt-in date, if applicable.
OptedOut	Boolean	Yes	Contact's opt-out date, if applicable.
Resume	String	Yes	The date contact will be opted back in if they are presently in a Snoozed state.

SendData			
ORGANIZATION_ID	String	Yes	Identifies your Engage Organization.
CONTACT_LISTS	String	Yes	If the RETURN_CONTACT_LISTS is "true" in the request, this parent node will be included in the response. It will contain a child element for each Contact List the contact belongs to.  <b>Child Elements</b>  CONTACT_LIST_ID Id of a Contact List which the contact belongs to.
COLUMNS	Depends on the type of Column child fields.	Yes	XML nodes defining the user-created column name and value.  <b>Child Elements</b>  Name Specifies the field name.  Value Specifies the field value.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_mapping\\_the\\_outputs\\_of\\_the\\_act4.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_mapping_the_outputs_of_the_act4.html)

## Note about Deploying a Silverpop Orchestration

---

The project for Silverpop connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Silverpop activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
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## Activity: Select Lead

---

This activity retrieves the information about a Lead in a database. If your database has a key other than Email, you must include all unique key columns with their corresponding name/value pairs. If your database has no Unique Identifier defined, one or more columns must be specified in order to look up the Lead. If both Recipient Id and Visitor Key are provided, Recipient Id is used to lookup a Lead.

- [Add the Select Lead Activity in the orchestration](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** Silver Pop Activities

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[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_activity\\_\\_select\\_lead.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_activity__select_lead.html)

## Add the Select Lead Activity in the orchestration

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Silverpop folder.
3. Drag the Silverpop "Select Lead" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Silverpop endpoint](#)
  - [Configuring the Activity](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Select Lead](#)

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[Feedback](#) | [Notices](#)

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## Creating, selecting, or editing a Silverpop endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
- c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Select Lead Activity in the orchestration](#)

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## Configuring the Activity

---

1. Click on the browse button for the Object Type to browse the list of Databases available in the Silverpop Server to Update the Lead.
2. Browse will obtain the list of Databases along with their List Id as present in the Silverpop Server connected.
3. Select the required database by clicking on the database name.
4. Once selected the fields corresponding to the database will be displayed in the Object Field Preferences Section.
5. Here we can unselect/select the fields as required. Mandatory fields cannot be unselected.

**Parent topic:** [Add the Select Lead Activity in the orchestration](#)

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[Feedback](#) | [Notices](#)

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## Mapping the inputs of the Activity

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**Parent topic:** [Add the Select Lead Activity in the orchestration](#)

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## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

The mandatory parameters for this Activity vary depending on the custom fields of the database.

Select Lead Activity

Name	Type	R e q u ir e d	Description
EMAIL	String	No	The Lead email address to look up. <b>Note:</b> When using a Non-Email Key or No-Key database, this element is not required
RECIPIENT_ID	String	No	The Recipient Id may be provided with a LIST_ID to look up a Lead. No key fields are required when passing the Recipient Id.
ENCODED_RECIPIENT_ID	String	No	The encoded Recipient Id may be provided with a LIST_ID to look up a Lead. No key fields are required when passing the encoded Recipient Id.
VISITOR_KEY	String	No	The Silverpop Web Tracking visitor key may be provided with a LIST_ID to look up a Lead. No key fields are required when passing the Silverpop Web Tracking Visitor key. The Silverpop Web Tracking Visitor key is available in the Web Tracking cookie stored in a Lead's browser settings.

RETURNCNT	Boolean	No i., true ii., false	Indicates whether to return all Lead Lists which the Lead belongs to. Valid values are:
COLUMN	Depends on Each column name type.	Yes	<p>Required if the database has a key other than Email or no Unique Identifier. XML nodes defining the column name and value used to look up a Lead in a database. Ignored for regular email key databases. <b>Note:</b> Unique key columns must be part of the submission with column names and values. <b>Note:</b> If more than one Lead is found matching the lookup columns, the oldest Lead will be returned.</p> <p>Name Specifies the field name of the unique key for the database.</p> <p>Value Specifies the field value for the field name of the unique key for the database.</p>

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Silverpop Orchestration](#)

**Parent topic:** [Activity: Select Lead](#)

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## Mapping the outputs of the Activity

Create a map between the Silverpop output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
SUCCESS	Boolean	Yes	<b>True</b> if successful.
EMAIL	String	Yes	Email address for the Lead.
Email	String	Yes	Email address for the Lead. <b>Note:</b> At the time of this writing, email is included twice in the response.
RecipientId	String	Yes	Internal unique ID for each Lead. If an encoded Recipient Id is specified in the request, the Recipient Id in the response will be encoded.
EmailType	String	Yes	Value indicating the preferred email type for the selected Lead. 0 – HTML 1 – Text
LastModified	String	Yes	Last time the Lead record was modified.
CreatedFrom	String	Yes	Value indicating the way in which Engage added the selected Lead to the system. 0 – Imported from a database 1 – Manually added 2 – Opted in 3 – Created from tracking database

OptedIn	Boolean	Yes	Lead's opt-in date, if applicable.
OptedOut	Boolean	Yes	Lead's opt-out date, if applicable.
ResumeSendDate	String	Yes	The date Lead will be opted back in if they are presently in a Snoozed state.
ORGANIZATION_ID	String	Yes	Identifies your Engage Organization.
CONTACT_LISTS	String	Yes	If the RETURN_CONTACT_LISTS is "true" in the request, this parent node will be included in the response. It will contain a child element for each Contact List the Lead belongs to.  <b>Child Elements</b>  CONTACT_LIST_ID  Id of a Contact List which the Lead belongs to.
COLUMNS	Depends on the type of Column child fields.	Yes	XML nodes defining the user-created column name and value.  <b>Child Elements</b>  Name  Specifies the field name.  Value  Specifies the field value.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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[Feedback](#) | [Notices](#)

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## Note about Deploying a Silverpop Orchestration

---

The project for Silverpop connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Silverpop activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Activity: Remove Contact

---

Use this Activity to remove a contact from a database or Contact List. If your database has a key other than Email, you must include all unique key columns with their corresponding name/value pairs. If your database has no Unique Identifier defined, one or more Sync Fields must be specified in order to look up the contact.

- [Add the Remove Contact Activity in the orchestration](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Silver Pop Activities](#)

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## Add the Remove Contact Activity in the orchestration

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
  2. Select the Activities tab and expand the Silverpop folder.
  3. Drag the Silverpop "Remove Contact" Activity onto the orchestration.
  4. Select the Activity. The Checklist is displayed.
- [Creating, selecting, or editing a Silverpop endpoint](#)
  - [Configuring the Activity](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Remove Contact](#)

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## Creating, selecting, or editing a Silverpop endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - Select Browse. The Project Explorer is displayed.
  - Select an existing endpoint and click OK.
1. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.
3. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Remove Contact Activity in the orchestration](#)

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[Feedback](#) | [Notices](#)

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## Configuring the Activity

---

1. Click on the browse button for the Object Type to browse the list of Databases available in the Silverpop Server to remove the Contact.
2. Browse will obtain the list of Databases along with their List Id as present in the Silverpop Server connected.
3. Select the required database by clicking on the database name.
4. Once selected the fields corresponding to the database will be displayed in the Object Field Preferences Section.
5. Here we can unselect/select the fields as required. Mandatory fields cannot be unselected.

**Parent topic:** [Add the Remove Contact Activity in the orchestration](#)

---

[Feedback](#) | [Notices](#)

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## Mapping the inputs of the Activity

---

**Parent topic:** [Add the Remove Contact Activity in the orchestration](#)

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[Feedback](#) | [Notices](#)

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## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

The mandatory parameters for this Activity vary depending on the custom fields of the database.

Remove Contact Activity

Name	Type	Required	Description
E M A	String	Yes	Email address of the contact to remove.

I L		
C O L U M N	Depend s on Each column M name N type.	<p>Y e s</p> <p>Required if the database has a key other than Email or no Unique Identifier. XML nodes defining the column name and value used to look up a contact in a database or Contact List. You must include all unique key columns with their corresponding name/value pairs when using this operation on a database having a key other than EMAIL. <b>Note:</b> If more than one contact is found matching the lookup columns, all contacts will be removed.</p> <p><b>Child Element</b></p> <p>Name</p> <p>Specifies the field name of a field which is part of the unique key for the database.</p> <p>Value</p> <p>Specifies the value for the field.</p>

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Silverpop Orchestration](#)

**Parent topic:** [Activity: Remove Contact](#)

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## Mapping the outputs of the Activity

Create a map between the Silverpop output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
SUCCESS	Boolean	Yes	<b>True</b> if successful.
ORGANIZATION_ID	String	Yes	Identifies your Engage Organization.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Note about Deploying a Silverpop Orchestration

The project for Silverpop connector is deployed on the Integration appliance. After the successful deployment, the orchestration containing the Silverpop activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_note\\_about\\_deploying\\_a\\_silverp6.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_note_about_deploying_a_silverp6.html)

## Activity: Remove Lead

---

Use this Activity to remove a lead from a database or Contact List. If your database has a key other than Email, you must include all unique key columns with their corresponding name/value pairs. If your database has no Unique Identifier defined, one or more Sync Fields must be specified in order to look up the lead.

- [Add the Remove Lead Activity in the orchestration](#)
- [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

**Parent topic:** [Silver Pop Activities](#)

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## Add the Remove Lead Activity in the orchestration

---

1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Silverpop folder.
3. Drag the Silverpop "Remove Lead" Activity onto the orchestration.
4. Select the Activity. The Checklist is displayed.
  - [Creating, selecting, or editing a Silverpop endpoint](#)
  - [Configuring the Activity](#)
  - [Mapping the inputs of the Activity](#)

**Parent topic:** [Activity: Remove Lead](#)

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## Creating, selecting, or editing a Silverpop endpoint

---

Click Pick Endpoint task from the Checklist and select one of the following actions:

1. Select an existing endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
2. Select an existing endpoint and edit the endpoint:
  - a. Select Browse. The Project Explorer is displayed.
  - b. Select an existing endpoint and click OK.
  - c. Click Edit. The Edit Endpoint panel is displayed.

c. Create a new endpoint: Select New. The Create Endpoint panel is displayed.

**Parent topic:** [Add the Remove Lead Activity in the orchestration](#)

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[Feedback](#) | [Notices](#)

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## Configuring the Activity

---

1. Click on the browse button for the Object Type to browse the list of Databases available in the Silverpop Server to remove the Lead.
2. Browse will obtain the list of Databases along with their List Id as present in the Silverpop Server connected.
3. Select the required database by clicking on the database name.
4. Once selected the fields corresponding to the database will be displayed in the Object Field Preferences Section.
5. Here we can unselect/select the fields as required. Mandatory fields cannot be unselected.

**Parent topic:** [Add the Remove Lead Activity in the orchestration](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_configuring\\_the\\_activity7.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_configuring_the_activity7.html)

## Mapping the inputs of the Activity

---

- 1.
2. The mandatory parameters for this Activity vary depending on the custom fields of the database.
- 3.

**Parent topic:** [Add the Remove Lead Activity in the orchestration](#)

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## Click on Map Input link in Configure Activity section displayed below the orchestration.

---

Remove Lead Activity

N	Type	R	Description
a		e	
		q	

	m e	u i r e d	
E M A I L	String	Y e s	Email address of the Lead to remove.
C O s on L Each U column M name N type.	Depend e s e s  <b>Child Element</b>  Name  Specifies the field name of a field which is part of the unique key for the database.  Value  Specifies the value for the field.	Y e s  <b>Child Element</b>  Name  Specifies the field name of a field which is part of the unique key for the database.  Value  Specifies the value for the field.	Required if the database has a key other than Email or no Unique Identifier. XML nodes defining the column name and value used to look up a Lead in a database or Contact List. You must include all unique key columns with their corresponding name/value pairs when using this operation on a database having a key other than EMAIL. <b>Note:</b> If more than one Lead is found matching the lookup columns, all Leads will be removed.

- [Mapping the outputs of the Activity](#)
- [Note about Deploying a Silverpop Orchestration](#)

**Parent topic:** [Activity: Remove Lead](#)

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_click\\_on\\_map\\_input\\_link\\_in\\_con7.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_click_on_map_input_link_in_con7.html)

## Mapping the outputs of the Activity

Create a map between the Silverpop output parameters and the orchestration variables. The expected response is generated on a successful mapping.

Name	Data type	Required	Description
SUCCESS	Boolean	Yes	<b>True</b> if successful.
ORGANIZATION_ID	String	Yes	Identifies your Engage Organization.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop\\_mapping\\_the\\_outputs\\_of\\_the\\_act7.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Silverpop_mapping_the_outputs_of_the_act7.html)

## Note about Deploying a Silverpop Orchestration

The project for Silverpop connector is deployed on the Integration appliance. After the successful deployment, the orchestrations containing the Silverpop activities are executed.

**Parent topic:** [Click on Map Input link in Configure Activity section displayed below the orchestration.](#)

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## Security Token Service (STS) activities

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- [Creating or editing an STS endpoint](#)

A Security Token Service (STS) endpoint provides the connection information that Studio and the Integration Appliance use to connect to an STS. You can request for a SAML 2.0 token/assertion from STS, which complies to WS-Trust specification.

- [Using the STS Get SAML 2.0 Token activity](#)

The **Get SAML 2.0 Token** activity is used to send a request that conforms to WS-Trust standard specification, to the Secure Token Service (STS) Provider. The request message is called the Request Security Token (RST). On receiving the request, the STS generates the requested token and sends it as part of the response, called the Request Security Token Response (RSTR). For this activity, the only token that is requested is SAML 2.0 token/assertion.

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_stsactivities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_stsactivities.html)

## Creating or editing an STS endpoint

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A Security Token Service (STS) endpoint provides the connection information that Studio and the Integration Appliance use to connect to an STS. You can request for a SAML 2.0 token/assertion from STS, which complies to WS-Trust specification.

1. In the Create Endpoint or Edit Endpoint pane, configure the fields as described in the following table.

Note: Changing the configuration properties of an endpoint affects all orchestrations that use that endpoint in the project as the edits are global, not local.

Table 1. Endpoint field description

Field Name	Description
<b>Location</b>	
Host Name	Specify the host name or IP address of the STS that this endpoint connects to.
Port	Specify the port number of the STS.
<b>Login</b>	<b>Description</b>
Log into the Server as an Anonymous User	Select this option to connect to STS anonymously (where user account is not required).

<b>Field Name</b>	<b>Description</b>
Log into the Server with User Name and Password	Select this option to connect to STS using a user account. Specify the User Name and Password.
Authentication	Allows you to select the type of authentication that the Integration Appliance uses when connecting to an STS server. From the list, select one of the following authentication options: <ul style="list-style-type: none"> <li>• <b>Basic</b> - Sends the user name and password you specify unencrypted to the server. This authentication scheme is the least secure.</li> </ul>
User Name	Specify the User Name for the account used to connect to the STS.
Password	Specify the Password for the account used to connect to the STS.
<b>Security</b>	<b>Description</b>
None	Select the None option if no security is required.
HTTPS	Select the HTTPS option to enable secure HTTP over SSL. <ul style="list-style-type: none"> <li>• When client authentication is required, select the Client Certificate Alias Name check box to specify that the Integration Appliance acting as a client should provide a certificate to STS. If selected, the name of the certificate must be provided. (For information about how to import a client certificate and private key for use with client authentication, see <a href="#">Importing an end-entity certificate</a>). A certificate specified at the endpoint level with this check box takes precedence over certificates specified on the <b>Security Certificates &gt; Settings &gt; Client SSL</b> entry in the WMC.</li> </ul>
Protocol Version	Select the protocol used for secure HTTP over SSL. By default, the protocol version used is <code>SSL_TLSv2</code> .
<b>Connection Timeout - The following Connection field is available for the Remote Server option only.</b>	
Time out after ____ seconds when establishing a connection to the Endpoint.	The number of seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the Endpoint and the time it takes for the endpoint to respond to the connection request. For an STS activity, the amount of time the Integration Appliance attempts to establish a connection to STS before timing out. A connection timeout is different from an activity timeout because an activity timeout occurs after the connection to the endpoint has already been established. An activity timeout specifies the amount of time in seconds before a timeout occurs between the activity invoking a request on an endpoint and the time it takes the endpoint to respond.
<b>Proxy - The following Proxy fields are available for the Remote Server option only.</b>	
<b>Login</b>	<b>Description</b>
Connect via a Proxy Server	Select this check box if the request has to be routed through a proxy server.

Field Name	Description
Authentication	<p>Allows you to select the type of authentication that the Integration Appliance uses when connecting to a remote server. From the drop-down list, select one of the following authentication options:</p> <ul style="list-style-type: none"> <li>• <b>Basic</b> - Sends the user name and password you specify unencrypted to the server. This authentication schema is the least secure.</li> <li>• <b>NTLM</b> - Requires an instance of NTCredentials to be available for the domain name of the server. This authentication is the most secure authentication option as the Integration Appliance authenticates a connection and not a request; therefore, the Integration Appliance authenticates every time a new connection is made. The connection must remain open during the authentication process. You cannot use NTLM to authenticate with both a proxy and server.</li> </ul> <p>Note: Do not prefix the user name with the domain.</p>
Realm / Domain	If you select the Basic authentication option, specify a realm. If you select the NTLM authentication option, specify a domain.
Host Name	Specify the host name or IP address of the proxy server that the request is routed through.
Port	Specify the port number of the proxy server that the request is routed through.
User Name	Specify the User Name for the account used to connect to the proxy server.
Password	Specify the Password for the account used to connect to the proxy server.
<b>Remote Endpoint Configuration</b>	Â
Endpoint Runs Behind Firewall	Select the check box to enable the secure connector name property so that secure connector can be used if STS is running behind a firewall.
Secure Connector Name	Specify the name of the secure connector that is used to connect to STS running behind a firewall. For example, if an orchestration containing an STS activity is deployed on to Cast Iron Live (cloud), then the secure connector needs to be configured.

Note: For some of the fields in the endpoint, you can define configuration properties to supply the values for these fields. Â The  icon is displayed when you click in a field that supports a configuration property and a configuration property of the same type has already been configured for the project.

**Parent topic:** [Security Token Service \(STS\) activities](#)

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## Using the STS Get SAML 2.0 Token activity

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The **Get SAML 2.0 Token** activity is used to send a request that conforms to WS-Trust standard specification, to the Secure Token Service (STS) Provider. The request message is called the Request Security Token (RST). On receiving the request, the STS generates the requested token and sends it as part of the response, called the Request Security Token Response (RSTR). For this activity, the only token that is requested is SAML 2.0 token/assertion.

### Configuring the Get SAML 2.0 Token activity in the orchestration

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1. Create or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the STS folder.
3. Drag the **Get SAML 2.0 Token** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed.

The Get SAML 2.0 Token activity requires an endpoint to be configured, to send the request for a security token to the external STS (Secure Token Service). The endpoint that is used in this activity is called the STS endpoint. The configuration parameters and functions of this endpoint are similar to the HTTP endpoint. However, this endpoint has properties that are specific to the Get SAML 2.0 activity.

## Creating, selecting, or editing an STS endpoint

---

1. Click **Pick Endpoint** task from the **Checklist** and choose from one of the following actions:
  - Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK. Skip to the "Configure the activity" procedure.
  - Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint pane is displayed.
  - Create a new endpoint: Select New. The Create Endpoint pane is displayed.
2. Create or edit an STS endpoint. See [Creating or editing an STS endpoint](#).

## Configuring the activity

---

1. Select the **Configure** task from the **Checklist**. The Configure pane is displayed.
2. Configure all the fields and check boxes in this pane as described in the following table:

Table 1.

<b>File Id or Ch ec k Bo x</b>	<b>Description</b>
<b>Request</b>	
UR L (Pa th aft er Ho stn am e)	Specifies the URI path that the <b>Get SAML 2.0 Token</b> activity sends the request to, for example: TrustServerWST13/services/RequestSecurityToken. The string that you specify in this field must exclude the protocol, for example: http://, the host name, and the port number of the Integration Appliance. The full URL is automatically constructed from the host name of the Integration Appliance, the port number that is specified in the STS endpoint, and the URI path that is specified in this field. For example, if the complete URL that the <b>Get SAML 2.0 Token</b> activity sends the request to, is http://<applianceHost>:<appliancePort>/<URI>, in this field, you must only specify the URI.
<b>SAML Security Token Service Properties</b>	
Re qu est Ty pe	This activity supports only issuing of SAML 2.0 token/assertion. The default value is <code>http://docs.oasis-open.org/ws-sx/ws-trust/200512/Issue</code> .
Ap pli es To	The recipient endpoint reference/entity of SAML 2.0 token/assertion.
Iss uer	The authority responsible for issuing SAML 2.0 token/assertion.
To ke n Ty pe	This activity issues SAML 2.0 token/assertion. The default value is <code>SAML v2.0</code> . If you select <code>None</code> as the Token Type, then, no token type is sent as a part of the request. Note: Some STS services do not require a token type, but issues tokens that are based on the configurations in STS.

## Mapping the input into the activity

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1. Select the **Map Inputs** task in the **Checklist**. The header input parameter is displayed in the To Activity pane of the **Map Inputs** task. The header input parameter is mandatory. The header input parameter contains the WSSE standard `Username Token`.
2. To view the optional input parameter in the To Activity pane of the Map Inputs pane, select **Map > Show Optional Parameters** from the toolbar menu or right-click in the To Activity pane and select the **Show Optional Parameters** option. If the **Map > Show Optional Parameters** option is not selectable in the toolbar menu, click a node in the Map Inputs pane to make this option active. The `requestSecurityToken`, `location`, `httpheaders`, and `proxyConnection` input parameters are displayed.

The following table defines the nodes of the optional `httpheaders` input parameter:

Table 2.

Input parameter	Description
<code>requestSecurityToken</code>	<code>requestSecurityToken</code> is sent as a SOAP body, which is interpreted by STS. Based on the input, STS issues the SAML 2.0 token/assertion. Note: If the values are populated in <code>requestSecurityToken</code> , the values that are provided in the Configure panel will not be considered.

3. Create a map between the orchestration variable or variables and the input parameter or parameters. See [Creating a map](#) for general instructions on mapping

## Mapping the output of the activity

---

1. Select the **Map Outputs** task in the **Checklist**. The output parameters of the activity are displayed in the From Activity pane of the **Map Outputs** task as described in the following table:

Table 3.

Output Parameter	Description
<code>httpheaders</code>	Specifies the HTTP header of the response.
<code>assertion</code>	Contains the SAML 2.0 token/assertion.

2. Create a map between the output parameter or parameters of the activity and orchestration variable or variables. See [Creating a map](#) for general instructions on mapping.

**Parent topic:** [Security Token Service \(STS\) activities](#)

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## SugarCRM activities

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- [Creating and editing a SugarCRM endpoint](#)  
SugarCRM endpoints contain the connection information that studio and the Integration Appliance use to connect to the SugarCRM Server. You can create multiple endpoints that refer to separate instances.
- [Using the SugarCRM Upsert Object activity](#)  
Use the SugarCRM Upsert Object activity to update or insert objects in the SugarCRM instance.
- [Using the SugarCRM Get Reports activity](#)  
Use the SugarCRM Get Reports activity to retrieve specific reports from the SugarCRM server.
- [Using the SugarCRM Delete Object activity](#)  
Use the SugarCRM Delete Object activity to delete objects from the SugarCRM server.
- [Using the SugarCRM Get Object activity](#)  
Use the SugarCRM Get Object activity to get objects from the SugarCRM server.
- [Using the SugarCRM Query Object activity](#)  
Use the SugarCRM Query Object activity to query objects in the SugarCRM server.
- [Using the SugarCRM Get ServerInfo activity](#)  
Use the SugarCRM Get ServerInfo activity to retrieve server information such as `flavor`, `version`, and `GMT time` from the SugarCRM server.

- [Using the SugarCRM Get UserInfo activity](#)  
Use the SugarCRM Get UserInfo activity to retrieve user information such as *userId*, *userTeamId*, and so on from the SugarCRM server.
- [Using the SugarCRM Search activity](#)  
Use the SugarCRM Search activity to search for objects from specified records. This activity searches for details based on a query.
- [Using the SugarCRM Set Relationship activity](#)  
Use the SugarCRM Set Relationship activity to set a single relationship between two records.
- [Using the SugarCRM Delete Relationship activity](#)  
Use the SugarCRM Delete Relationship activity to delete a relationship between two records.
- [Using the SugarCRM Get Relationship activity](#)  
Use the SugarCRM Get Relationship activity to retrieve the relationship data between two records. For example, you can use this activity to retrieve the contact details of a particular account and also retrieve the e-mail address and the opportunities information for that contact.
- [Specifying the Retry options for SugarCRM activities](#)  
Specifying the Retry parameters is one of the tasks to configure an SugarCRM activity. The SugarCRM connector uses a single login session for all connections to an SugarCRM endpoint. If a session expires, the connector automatically establishes a new session. The connector does not count the initial attempt to reacquiring the session as a retry attempt. The connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails.

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## Creating and editing a SugarCRM endpoint

SugarCRM endpoints contain the connection information that studio and the Integration Appliance use to connect to the SugarCRM Server. You can create multiple endpoints that refer to separate instances.

### About this task

Use this task to create or edit a SugarCRM endpoint.

Note:

Any changes you make to the SugarCRM endpoint, including configuration properties, affects all the orchestrations that use that endpoint, as the edits are global, not local.

### Procedure

1. Drag an activity from the SugarCRM folder under the Activities tab to the Orchestration window. The Summary panel is displayed.
2. Click Pick Endpoint from the Checklist. The Pick Endpoint panel is displayed.
3. Click one of the following buttons:
  - a. Browse - To select an existing endpoint from Project Explorer. The Project Explorer shows all the endpoints in the project available for the activity. When you select an endpoint, the endpoint properties are displayed in the Pick Endpoint panel.
  - b. New - To create a new endpoint. The Create Endpoint window opens.
  - c. Edit - To edit the existing endpoint. The Edit Endpoint window opens.
4. Complete the fields defined in the following table:

Table 1. Connection Details

Field Name	Description
Connection Details	
SugarCRM URL	Specify the SOAP URL of your SugarCRM instance. For example, <code>http://&lt;sugar-server&gt;/&lt;sugar-path&gt;/soap.php</code> .
User Name	Specifies the user name to connect to the SugarCRM server.

Field Name	Description
Password	Specifies the password associated with the user name to connect to the SugarCRM server.
Application Name	Indicates the name of the application used. The application name is populated automatically as <i>sugarCRM</i> .
Version	Indicates the version of the application used. The version number is populated automatically as <i>2.0</i> .

5. When finished, click Test Connection to confirm that you can connect to the SugarCRM system.

6. Click OK.

**Parent topic:** [SugarCRM activities](#)

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## Using the SugarCRM Upsert Object activity

Use the SugarCRM Upsert Object activity to update or insert objects in the SugarCRM instance.

### About this task

Use this task to update or insert objects in the SugarCRM instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

1. In an active orchestration, open the Activities tab and expand the SugarCRM folder contents.
2. Drag the Upsert Object activity icon onto the orchestration. The SugarCRM Upsert Object Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a SugarCRM endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse SugarCRM window is displayed.
11. In Browse SugarCRM, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for SugarCRM activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Upsert Object activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the SugarCRM Upsert Object activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [SugarCRM activities](#)

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## Using the SugarCRM Get Reports activity

---

Use the SugarCRM Get Reports activity to retrieve specific reports from the SugarCRM server.

### About this task

---

Use this task to retrieve specific reports from the SugarCRM server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the SugarCRM folder contents.
2. Drag the Get Reports activity icon onto the orchestration. The SugarCRM Get Reports Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a SugarCRM endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Get Reports activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
11. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
12. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the SugarCRM Get Reports activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [SugarCRM activities](#)

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## Using the SugarCRM Delete Object activity

---

Use the SugarCRM Delete Object activity to delete objects from the SugarCRM server.

### About this task

---

Use this task to delete objects from the SugarCRM server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the SugarCRM folder contents.
2. Drag the Delete Object activity icon onto the orchestration. The SugarCRM Delete Object Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
*Note:* For more information, see [Creating and editing a SugarCRM endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse SugarCRM window is displayed.
11. In Browse SugarCRM, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list.
12. Click OK. The object field preferences are displayed.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for SugarCRM activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Delete Object activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
*Note:* Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the SugarCRM Delete Object activity.

*Note:* You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [SugarCRM activities](#)

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# Using the SugarCRM Get Object activity

---

Use the SugarCRM Get Object activity to get objects from the SugarCRM server.

## About this task

---

Use this task to get objects from the SugarCRM server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the SugarCRM folder contents.
2. Drag the Get Object activity icon onto the orchestration. The SugarCRM Get Object Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a SugarCRM endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse SugarCRM window is displayed.
11. In Browse SugarCRM, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list.
12. Click OK. The object field preferences are displayed.
13. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
14. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for SugarCRM activities](#).
15. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Get Object activity are displayed as nodes under the request input parameter in the To Activity panel.
16. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for the element or by linking the element with an input node. During run time, if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
17. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
18. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the SugarCRM Get Object activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [SugarCRM activities](#)

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# Using the SugarCRM Query Object activity

---

Use the SugarCRM Query Object activity to query objects in the SugarCRM server.

## About this task

---

Use this task to query objects in the SugarCRM server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the SugarCRM folder contents.
2. Drag the Query Object activity icon onto the orchestration. The SugarCRM Query Object Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a SugarCRM endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse SugarCRM window is displayed.
11. In Browse SugarCRM, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list.
12. Click OK. The object field preferences are displayed.
13. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
14. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for SugarCRM activities](#).
15. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Query Object activity are displayed as nodes under the request input parameter in the To Activity panel.  
Note: To retrieve all deleted objects, set the required string in the QueryString, under Map Inputs. For example, to retrieve all deleted account objects, the query string should be accounts.deleted=1.
16. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
17. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
18. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the SugarCRM Query Object activity.

**Parent topic:** [SugarCRM activities](#)

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## Using the SugarCRM Get ServerInfo activity

---

Use the SugarCRM Get ServerInfo activity to retrieve server information such as *flavor*, *version*, and *GMT time* from the SugarCRM server.

## About this task

---

Use this task to retrieve server information such as *flavor*, *version*, and *GMT time* from the SugarCRM server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the SugarCRM folder contents.
2. Drag the Get ServerInfo activity icon onto the orchestration. The SugarCRM Get ServerInfo Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a SugarCRM endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Get ServerInfo activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
11. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the SugarCRM Get ServerInfo activity.

**Parent topic:** [SugarCRM activities](#)

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## Using the SugarCRM Get UserInfo activity

---

Use the SugarCRM Get UserInfo activity to retrieve user information such as *userId*, *userTeamId*, and so on from the SugarCRM server.

## About this task

---

Use this task to retrieve user information such as such as *userId*, *userTeamId*, and so on from the SugarCRM server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the SugarCRM folder contents.
2. Drag the Get UserInfo activity icon onto the orchestration. The SugarCRM Get UserInfo Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a SugarCRM endpoint](#).

8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Get UserInfo activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
11. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the SugarCRM Get UserInfo activity.

**Parent topic:** [SugarCRM activities](#)

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## Using the SugarCRM Search activity

---

Use the SugarCRM Search activity to search for objects from specified records. This activity searches for details based on a query.

### About this task

---

Use this task to search for objects from specified records. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the SugarCRM folder contents.
2. Drag the Search activity icon onto the orchestration. The SugarCRM Search Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a SugarCRM endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Search activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
11. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
12. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the SugarCRM Search activity.

**Parent topic:** [SugarCRM activities](#)

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## Using the SugarCRM Set Relationship activity

---

Use the SugarCRM Set Relationship activity to set a single relationship between two records.

### About this task

---

Use this task to set a single relationship between two records. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the SugarCRM folder contents.
2. Drag the Set Relationship activity icon onto the orchestration. The SugarCRM Set Relationship Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
*Note:* For more information, see [Creating and editing a SugarCRM endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse SugarCRM window is displayed.
11. In Browse SugarCRM, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list.
12. Click OK. The object field preferences are displayed.
13. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
14. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for SugarCRM activities](#).
15. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Set Relationship activity are displayed as nodes under the request input parameter in the To Activity panel.
16. Create a map between the orchestration variables and the input parameter of the activity.  
*Note:* Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
17. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
18. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the SugarCRM Set Relationship activity.

*Note:* You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [SugarCRM activities](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SugarCRM\\_set\\_relationship\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SugarCRM_set_relationship_activity.html)

## Using the SugarCRM Delete Relationship activity

---

Use the SugarCRM Delete Relationship activity to delete a relationship between two records.

### About this task

---

Use this task to delete a relationship between two records. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the SugarCRM folder contents.
2. Drag the Delete Relationship activity icon onto the orchestration. The SugarCRM Delete Relationship Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
*Note:* For more information, see [Creating and editing a SugarCRM endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse SugarCRM window is displayed.
11. In Browse SugarCRM, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list.
12. Click OK. The object field preferences are displayed.
13. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
14. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for SugarCRM activities](#).
15. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Delete Relationship activity are displayed as nodes under the request input parameter in the To Activity panel.
16. Create a map between the orchestration variables and the input parameter of the activity.  
*Note:* Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
17. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
18. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the SugarCRM Delete Relationship activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [SugarCRM activities](#)

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## Using the SugarCRM Get Relationship activity

---

Use the SugarCRM Get Relationship activity to retrieve the relationship data between two records. For example, you can use this activity to retrieve the contact details of a particular account and also retrieve the e-mail address and the opportunities information for that contact.

### About this task

---

Use this task to retrieve the relationship data between two records. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the SugarCRM folder contents.
2. Drag the Get Relationship activity icon onto the orchestration. The SugarCRM Get Relationship Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a SugarCRM endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse SugarCRM window is displayed.
11. In Browse SugarCRM, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list.
12. Click OK. The object field preferences are displayed.
13. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
14. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for SugarCRM activities](#).
15. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Get Relationship activity are displayed as nodes under the request input parameter in the To Activity panel.
16. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
17. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
18. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the SugarCRM Get Relationship activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [SugarCRM activities](#)

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## Specifying the Retry options for SugarCRM activities

Specifying the Retry parameters is one of the tasks to configure an SugarCRM activity. The SugarCRM connector uses a single login session for all connections to an SugarCRM endpoint. If a session expires, the connector automatically establishes a new session. The connector does not count the initial attempt to reacquiring the session as a retry attempt. The connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails.

### About this task

Use this task to configure the Retry options for SugarCRM activities.

### Procedure

1. Select the Retry task from the Checklist. The retry pane is displayed.
2. Configure the retry and timeout options for connecting to an SugarCRM instance, as described in the following table:

Table 1. Retry options

Retry Fields	Description
Wait __ seconds between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the SugarCRM instance.
Try to connect __ times before failing.	Specifies the retry count – the maximum number of times the Integration Appliance attempts to establish a connection to the SugarCRM instance before issuing an error and stopping the processing of the current orchestration job.  Note: If you deploy an orchestration that contains the SugarCRM activity and the Integration Appliance cannot connect to the specified SugarCRM instance, the Integration Appliance logs the connection errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3, the first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.
Activity Timeout	
Timeout after ____ seconds when the endpoint does not respond to a request.	Specifies the number of seconds the Integration Appliance waits before timing out, when the endpoint does not respond to a request. The default is 300 seconds.

**Parent topic:** [SugarCRM activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SugarCRM\\_Specifying\\_Retry\\_Parameters\\_for\\_SugarCRM\\_Activities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SugarCRM_Specifying_Retry_Parameters_for_SugarCRM_Activities.html)

# SugarCRM REST API Activities

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- [Creating and editing a SugarCRM REST API endpoint](#)

SugarCRM Rest API endpoints contain the connection information that studio and the Integration Appliance use to connect to the SugarCRM Server via Rest API. You can create multiple endpoints that refer to separate instances.

- [Using the SugarCRM REST API Get UserInfo activity](#)

Use the SugarCRM REST API Get UserInfo activity to retrieve user information such as *userId*, *userTeamId*, and so on from the SugarCRM server.

- [Using the SugarCRM REST API Get ServerInfo activity](#)

Use the SugarCRM REST API Get ServerInfo activity to retrieve server information such as *flavor*, *version*, and *GMT time* from the SugarCRM server.

- [Using the SugarCRM REST API Get Reports activity](#)

Use the SugarCRM REST API Get Reports activity to retrieve specific reports from the SugarCRM server.

- [Using the SugarCRM REST API Create Object activity](#)

Use the SugarCRM REST API Create Object activity to create objects in the SugarCRM REST API instance.

- [Using the SugarCRM REST API Get Objects activity](#)

Use the SugarCRM REST API Get Objects activity to get objects from the SugarCRM server.

- [Using the SugarCRM REST API Delete Object activity](#)

Use the SugarCRM REST API Delete Object activity to delete objects from the SugarCRM REST API server.

- [Using the SugarCRM REST API Update Object activity](#)

Use the SugarCRM REST API Update Object activity to update objects in the SugarCRM instance.

- [Using the SugarCRM REST API Search activity](#)

Use the SugarCRM REST API Search activity to search for objects from specified records. This activity searches for details based on a query.

- [Specifying the Retry options for SugarCRM REST API activities](#)

Specifying the Retry parameters is one of the tasks to configure a SugarCRM REST API activity. The SugarCRM REST API connector uses a single login session for all connections to an SugarCRM REST API endpoint. If a session expires, the connector automatically establishes a new session. The connector does not count the initial attempt to reacquiring the session as a retry attempt. The connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails.

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## Creating and editing a SugarCRM REST API endpoint

---

SugarCRM Rest API endpoints contain the connection information that studio and the Integration Appliance use to connect to the SugarCRM Server via Rest API. You can create multiple endpoints that refer to separate instances.

### About this task

---

Use this task to create or edit a SugarCRM Rest API endpoint.

Note:

Any changes you make to the SugarCRM Rest API endpoint, including configuration properties, affects all the orchestrations that use that endpoint, as the edits are global, not local.

### Procedure

---

1. Drag an activity from the SugarCRM folder under the Activities tab to the Orchestration window. The Summary panel is displayed.
2. Click Pick Endpoint from the Checklist. The Pick Endpoint panel is displayed.
3. Click one of the following buttons:
  - a. Browse - To select an existing endpoint from Project Explorer. The Project Explorer shows all the endpoints in the project available for the activity. When you select an endpoint, the endpoint properties are displayed in the Pick

- Endpoint panel.
- New - To create a new endpoint. The Create Endpoint window opens.
  - Edit - To edit the existing endpoint. The Edit Endpoint window opens.
- Complete the fields defined in the following table:
- Table 1. Connection Details**
- | <b>Field Name</b>  | <b>Description</b>  |
|--------------------|---|
| Connection Details |   |
| SugarCRM REST URL  | Specify the REST API URL of your SugarCRM Rest API instance. For example, <code>https://&lt;sugar-server&gt;/&lt;sugar-path&gt;/rest/v10</code> |
| User Name          | Specifies the user name of the SugarCRM Rest API to connect to the SugarCRM server.   |
| Password           | Specifies the password associated with the user name to connect to the SugarCRM server.   |
| Client ID          | Indicates the client ID of SugarCRM to get the OAuth token.   |
| Client Secret      | Indicates the client secret of SugarCRM to get the OAuth token.   |
- When finished, click Test Connection to confirm that you can connect to the SugarCRM system via REST API using OAuth tokens.
  - Click OK.

**Parent topic:** [SugarCRM REST API Activities](#)

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## Using the SugarCRM REST API Get UserInfo activity

Use the SugarCRM REST API Get UserInfo activity to retrieve user information such as `userId`, `userTeamId`, and so on from the SugarCRM server.

### About this task

Use this task to retrieve user information such as such as `userId`, `userTeamId`, and so on from the SugarCRM server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

- In an active orchestration, open the Activities tab and expand the SugarCRM REST API folder contents.
- Drag the Get UserInfo activity icon onto the orchestration. The SugarCRM REST API Get UserInfo Checklist is displayed.
- In the Checklist, click Summary.
- Review the contents of the Activity Name field, and make the required changes.
- In the Checklist, click Pick Endpoint.
- Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM REST API endpoint.
- Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
 Note: For more information, see [Creating and editing a SugarCRM REST API endpoint](#).
- To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
- Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Get UserInfo activity are displayed as nodes under the request input parameter in the To Activity panel.
- Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
- Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the SugarCRM REST API Get UserInfo activity.

**Parent topic:** [SugarCRM REST API Activities](#)

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## Using the SugarCRM REST API Get ServerInfo activity

---

Use the SugarCRM REST API Get ServerInfo activity to retrieve server information such as *flavor*, *version*, and *GMT time* from the SugarCRM server.

### About this task

---

Use this task to retrieve server information such as *flavor*, *version*, and *GMT time* from the SugarCRM server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the SugarCRM REST API folder contents.
2. Drag the Get ServerInfo activity icon onto the orchestration. The SugarCRM REST API Get ServerInfo Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM REST API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a SugarCRM REST API endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Get ServerInfo activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
11. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the SugarCRM REST API Get ServerInfo activity.

**Parent topic:** [SugarCRM REST API Activities](#)

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## Using the SugarCRM REST API Get Reports activity

---

Use the SugarCRM REST API Get Reports activity to retrieve specific reports from the SugarCRM server.

## About this task

---

Use this task to retrieve specific reports from the SugarCRM server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the SugarCRM REST API folder contents.
2. Drag the Get Reports activity icon onto the orchestration. The SugarCRM REST API Get Reports Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM REST API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a SugarCRM REST API endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Get Reports activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
11. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
12. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the SugarCRM REST API Get Reports activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [SugarCRM REST API Activities](#)

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## Using the SugarCRM REST API Create Object activity

---

Use the SugarCRM REST API Create Object activity to create objects in the SugarCRM REST API instance.

## About this task

---

Use this task to create objects in the SugarCRM REST API instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the SugarCRM REST API folder contents.
2. Drag the Create Object activity icon onto the orchestration. The SugarCRM REST API Create Object Checklist is displayed.

3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM REST API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a SugarCRM REST API endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse SugarCRM REST API window is displayed.
11. In Browse SugarCRM REST API, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for SugarCRM REST API activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Upsert Object activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the SugarCRM REST API Create Object activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [SugarCRM REST API Activities](#)

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## Using the SugarCRM REST API Get Objects activity

---

Use the SugarCRM REST API Get Objects activity to get objects from the SugarCRM server.

### About this task

---

Use this task to get objects from the SugarCRM server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the SugarCRM REST API folder contents.
2. Drag the Get Objects activity icon onto the orchestration. The SugarCRM REST API Get Objects Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM REST API endpoint.

7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a SugarCRM REST API endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse SugarCRM REST API window is displayed.
11. In Browse SugarCRM REST API, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list.
12. Click OK. The object field preferences are displayed.
13. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
14. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for SugarCRM REST API activities](#).
15. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Get Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
16. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for the element or by linking the element with an input node. During run time, if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
17. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
18. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the SugarCRM REST API Get Objects activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

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## Using the SugarCRM REST API Delete Object activity

---

Use the SugarCRM REST API Delete Object activity to delete objects from the SugarCRM REST API server.

### About this task

---

Use this task to delete objects from the SugarCRM REST API server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the SugarCRM REST API folder contents.
2. Drag the Delete Object activity icon onto the orchestration. The SugarCRM REST API Delete Object Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM REST API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a SugarCRM REST API endpoint](#).

8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse SugarCRM REST API window is displayed.
11. In Browse SugarCRM REST API, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list.
12. Click OK. The object field preferences are displayed.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for SugarCRM REST API activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Delete Object activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the SugarCRM REST API Delete Object activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [SugarCRM REST API Activities](#)

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## Using the SugarCRM REST API Update Object activity

---

Use the SugarCRM REST API Update Object activity to update objects in the SugarCRM instance.

### About this task

---

Use this task to update objects in the SugarCRM REST API instance. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the SugarCRM REST API folder contents.
2. Drag the Update Object activity icon onto the orchestration. The SugarCRM REST API Update Object Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM REST API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a SugarCRM REST API endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse SugarCRM REST API window is displayed.

11. In Browse SugarCRM REST API, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for SugarCRM REST API activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Update Object activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the SugarCRM REST API Update Object activity.

Note: You can add more than one object as input to this activity. To add more than one object as input, right click the object in the To Activity pane of Map Inputs, and select Expand Occurrences. Only multiple objects of the same type is supported.

**Parent topic:** [SugarCRM REST API Activities](#)

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## Using the SugarCRM REST API Search activity

---

Use the SugarCRM REST API Search activity to search for objects from specified records. This activity searches for details based on a query.

### About this task

---

Use this task to search for objects from specified records. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the SugarCRM REST API folder contents.
2. Drag the Search activity icon onto the orchestration. The SugarCRM REST API Search Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant SugarCRM REST API endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a SugarCRM REST API endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Search activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a

mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

11. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
12. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the SugarCRM REST API Search activity.

**Parent topic:** [SugarCRM REST API Activities](#)

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## Specifying the Retry options for SugarCRM REST API activities

---

Specifying the Retry parameters is one of the tasks to configure a SugarCRM REST API activity. The SugarCRM REST API connector uses a single login session for all connections to an SugarCRM REST API endpoint. If a session expires, the connector automatically establishes a new session. The connector does not count the initial attempt to reacquiring the session as a retry attempt. The connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails.

### About this task

---

Use this task to configure the Retry options for SugarCRM REST API activities.

### Procedure

---

1. Select the Retry task from the Checklist. The retry pane is displayed.
2. Configure the retry and timeout options for connecting to an SugarCRM instance, as described in the following table:

Table 1. Retry options

Retry Fields	Description
Wait __ seconds between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the SugarCRM instance.
Try to connect __ times before failing.	Specifies the retry count – the maximum number of times the Integration Appliance attempts to establish a connection to the SugarCRM instance before issuing an error and stopping the processing of the current orchestration job.  Note: If you deploy an orchestration that contains the SugarCRM REST API activity and the Integration Appliance cannot connect to the specified SugarCRM instance, the Integration Appliance logs the connections errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3, the first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.
Activity Timeout	

Retry Fields	Description
Timeout after _____ seconds when the endpoint does not respond to a request.	Specifies the number of seconds the Integration Appliance waits before timing out, when the endpoint does not respond to a request. The default is 300 seconds.

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## Taleo activities

- [Creating and editing a Taleo endpoint](#)  
Taleo endpoints contain the connection information that Studio and the Integration Appliance use to connect to the Taleo HR Community, Resources, Application, and Recruitment database. You can create multiple endpoints that refer to separate instances.
- [Using the Taleo Create Attachments activity](#)  
Use the Taleo Create Attachments activity to create appended files associated with an object. For example, creating interview letters and appointment orders for a candidate in the Taleo server.
- [Using the Taleo Create Objects activity](#)  
Use the Taleo Create Objects activity to create objects such as Employee, Task, Calendar Event, Account, Candidate, Contact, Interview, Requisition, and User in the Taleo server.
- [Using the Taleo Get Objects activity](#)  
Use the Taleo Get Objects activity to get objects such as Employee, Task, Calendar Event, Account, Candidate, Contact, Interview, Requisition, and User from the Taleo server.
- [Using the Taleo Search Objects activity](#)  
Use the Taleo Search Objects activity to search for objects based on the search value entered in the field name, in the Taleo server.
- [Using the Taleo Delete Objects activity](#)  
Use the Taleo Objects activity to delete objects such as Employee, Task, Calendar Event, Account, Candidate, Contact, Interview, Requisition, and User from the Taleo server.
- [Using the Taleo Set Associated Users activity](#)  
Use the Taleo Set Associated Users activity to set an association with specific users and requisitions, in the Taleo server. Requisitions contain details of all the job openings that you want to track in Taleo.
- [Using the Taleo Set Binary Resume activity](#)  
Use the Taleo Set Binary Resume activity to append resumes in a binary format (Word, PDF, and so on) to Candidate IDs in the Taleo server.
- [Using the Taleo Submit Candidates activity](#)  
Use the Taleo Submit Candidates activity to submit candidates (Candidate ID) who are either applicants, employee referrals, sourced prospects, or agency submissions, for requisitions (job openings) in the Taleo server.
- [Using the Taleo Update Attachments activity](#)  
Use the Taleo Update Attachments activity to update attachments associated with Candidates in the Taleo server. The update request replaces the existing attachment file.
- [Using the Taleo Update Objects activity](#)  
Use the Taleo Update Objects activity to update objects such as Employee, Task, Calendar Event, Account, Candidate, Contact, Interview, Requisition, and User in the Taleo server.
- [Using the Taleo Upsert Objects activity](#)  
Use the Taleo Upsert Objects activity to insert or update employee records in the Taleo server.

- [Specifying retry parameters for Taleo activities](#)

Specifying the retry parameters is one of the tasks you must complete to configure a Taleo activity.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_taleoactivities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_taleoactivities.html)

## Creating and editing a Taleo endpoint

---

Taleo endpoints contain the connection information that Studio and the Integration Appliance use to connect to the Taleo HR Community, Resources, Application, and Recruitment database. You can create multiple endpoints that refer to separate instances.

### About this task

---

Use this task to create or edit a Taleo endpoint. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

Note:

Any changes you make to the Taleo endpoint, including configuration properties, affects all the orchestrations that use that endpoint, as the edits are global, not local.

To create and edit a Taleo endpoint, complete the following steps:

### Procedure

---

1. Drag an activity from the Taleo folder under the Activities tab, to the Orchestration window. The Summary panel is displayed.
2. Click Pick Endpoint from the Checklist. The Pick Endpoint panel is displayed.
3. Click one of the following buttons:
  - a. **Browse** - To select an existing endpoint from Project Explorer. The Project Explorer shows all the endpoints in the project available for the activity. When you select an endpoint, the endpoint properties are displayed in the Pick Endpoint panel.
  - b. **New** - To create a new endpoint. The Create Endpoint window opens.
  - c. **Edit** - To edit the existing endpoint. The Edit Endpoint window opens.
4. In the Create Endpoint window, complete the fields defined in the following table:

Table 1. Connection details

Field Name	Description
<b>Connection Details</b>	
Instance Name	Specifies the name of the Taleo instance.
User Name	Specifies the user name to connect to the Taleo server.
Password	Specifies the password associated with the user name to connect to the Taleo server.

5. When finished, click Test Connection to confirm that you can connect to the Taleo system.
6. Click OK.

### Results

---

You have created or edited a Taleo endpoint.

**Parent topic:** [Taleo activities](#)

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## Using the Taleo Create Attachments activity

---

Use the Taleo Create Attachments activity to create appended files associated with an object. For example, creating interview letters and appointment orders for a candidate in the Taleo server.

### About this task

---

Use this task to create attachments in the Taleo server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Taleo Create Attachments activity, complete the following steps:

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Taleo folder contents.
2. Drag the Create Attachments activity icon onto the orchestration. The Taleo Create Attachments Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Taleo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a Taleo endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Create Attachments activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
11. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
12. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the Taleo Create Attachments activity.

**Parent topic:** [Taleo activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Taleo\\_create\\_attachments\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Taleo_create_attachments_activity.html)

## Using the Taleo Create Objects activity

---

Use the Taleo Create Objects activity to create objects such as Employee, Task, Calendar Event, Account, Candidate, Contact, Interview, Requisition, and User in the Taleo server.

### About this task

---

Use this task to create objects in the Taleo server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Taleo Create Objects activity, complete the following steps:

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Taleo folder contents.
2. Drag the Create Objects activity icon onto the orchestration. The Taleo Create Objects Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Taleo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a Taleo endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse Taleo window is displayed.
11. In Browse Taleo, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry parameters for Taleo activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Create Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Taleo Create Objects activity.

**Parent topic:** [Taleo activities](#)

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## Using the Taleo Get Objects activity

---

Use the Taleo Get Objects activity to get objects such as Employee, Task, Calendar Event, Account, Candidate, Contact, Interview, Requisition, and User from the Taleo server.

### About this task

---

Use this task to get objects from the Taleo server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure Taleo Get Objects, complete the following steps:

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Taleo folder contents.
2. Drag the Get Objects activity icon onto the orchestration. The Taleo Get Objects Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Taleo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a Taleo endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse Taleo window is displayed.
11. In Browse Taleo, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry parameters for Taleo activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Get Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Taleo Get Objects activity.

**Parent topic:** [Taleo activities](#)

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## Using the Taleo Search Objects activity

---

Use the Taleo Search Objects activity to search for objects based on the search value entered in the field name, in the Taleo server.

### About this task

---

Use this task to search for objects in the Taleo server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Taleo Search Objects activity, complete the following steps:

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Taleo folder contents.
2. Drag the Search Objects activity icon onto the orchestration. The Taleo Search Objects Checklist is displayed.

3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Taleo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a Taleo endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Search Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
11. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
12. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Taleo Search Objects activity.

**Parent topic:** [Taleo activities](#)

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## Using the Taleo Delete Objects activity

---

Use the Taleo Objects activity to delete objects such as Employee, Task, Calendar Event, Account, Candidate, Contact, Interview, Requisition, and User from the Taleo server.

### About this task

---

Use this task to delete objects from the Taleo server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Taleo Delete Objects activity, complete the following steps:

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Taleo folder contents.
2. Drag the Delete Objects activity icon onto the orchestration. The Taleo Delete Objects Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Taleo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a Taleo endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse Taleo window is displayed.

11. In Browse Taleo, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry parameters for Taleo activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Delete Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Taleo Delete Objects activity.

**Parent topic:** [Taleo activities](#)

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## Using the Taleo Set Associated Users activity

---

Use the Taleo Set Associated Users activity to set an association with specific users and requisitions, in the Taleo server. Requisitions contain details of all the job openings that you want to track in Taleo.

### About this task

---

Use this task to set an association with users and requisitions. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Taleo Set Associated Users activity, complete the following steps:

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Taleo folder contents.
2. Drag the Set Associated Users activity icon onto the orchestration. The Taleo Set Associated Users Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Taleo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a Taleo endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Set Associated Users activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a

mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.

11. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
12. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Taleo Set Associated Users activity.

**Parent topic:** [Taleo activities](#)

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## Using the Taleo Set Binary Resume activity

---

Use the Taleo Set Binary Resume activity to append resumes in a binary format (Word, PDF, and so on) to Candidate IDs in the Taleo server.

### About this task

---

Use this task to append binary resumes to Candidate IDs in the Taleo server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Taleo Set Binary Resume activity, complete the following steps:

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Taleo folder contents.
2. Drag the Set Binary Resumes activity icon onto the orchestration. The Taleo Set Binary Resumes Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Taleo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a Taleo endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Set Binary Resumes activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
11. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
12. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Taleo Set Binary Resumes activity.

**Parent topic:** [Taleo activities](#)

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## Using the Taleo Submit Candidates activity

---

Use the Taleo Submit Candidates activity to submit candidates (Candidate ID) who are either applicants, employee referrals, sourced prospects, or agency submissions, for requisitions (job openings) in the Taleo server.

### About this task

---

Use this task to submit candidates in the Taleo server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Taleo Submit Candidates activity, complete the following steps:

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Taleo folder contents.
2. Drag the Submit Candidates activity icon onto the orchestration. The Taleo Submit Candidates Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Taleo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a Taleo endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Submit Candidates activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
11. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
12. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the Taleo Submit Candidates activity.

**Parent topic:** [Taleo activities](#)

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# Using the Taleo Update Attachments activity

---

Use the Taleo Update Attachments activity to update attachments associated with Candidates in the Taleo server. The update request replaces the existing attachment file.

## About this task

---

Use this task to update attachments in the Taleo server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Taleo Update Attachments activity, complete the following steps:

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Taleo folder contents.
2. Drag the Update Attachments activity icon onto the orchestration. The Taleo Update Attachments Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Taleo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a Taleo endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Update Attachments activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
11. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
12. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Taleo Update Attachments activity.

**Parent topic:** [Taleo activities](#)

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# Using the Taleo Update Objects activity

---

Use the Taleo Update Objects activity to update objects such as Employee, Task, Calendar Event, Account, Candidate, Contact, Interview, Requisition, and User in the Taleo server.

## About this task

---

Use this task to update objects in the Taleo server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Taleo Update Objects activity, complete the following steps:

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Taleo folder contents.
2. Drag the Update Objects activity icon onto the orchestration. The Taleo Update Objects Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Taleo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a Taleo endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse Taleo window is displayed.
11. In Browse Taleo, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry parameters for Taleo activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Update Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Taleo Update Objects activity.

**Parent topic:** [Taleo activities](#)

---

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## Using the Taleo Upsert Objects activity

---

Use the Taleo Upsert Objects activity to insert or update employee records in the Taleo server.

### About this task

---

Use this task to insert or update employee records in the Taleo server. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Taleo Upsert Objects activity, complete the following steps:

## Procedure

---

1. In an active orchestration, open the Activities tab and expand the Taleo folder contents.
2. Drag the Upsert Objects activity icon onto the orchestration. The Taleo Upsert Objects Checklist is displayed.

3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Taleo endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a Taleo endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse Taleo window is displayed.
11. In Browse Taleo, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK. The object field preferences are displayed.
12. In Object Field Preferences, select the fields that you would like to map by selecting the corresponding field name check boxes.
13. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying retry parameters for Taleo activities](#).
14. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Upsert Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
15. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
16. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
17. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Taleo Upsert Objects activity.

**Parent topic:** [Taleo activities](#)

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## Specifying retry parameters for Taleo activities

---

Specifying the retry parameters is one of the tasks you must complete to configure a Taleo activity.

### About this task

---

The Taleo connector connects to the Taleo application to execute the activities. If a connection is lost or timed out, the connector automatically establishes a new connection based on the parameters described in Table 1. The connector does not count the initial attempt to reacquiring the session as a retry attempt. The connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails.

For more information about the configuration tasks in the Checklist, see the help topic for the specific Taleo activity.

To specify the retry parameters, complete the following steps:

### Procedure

---

1. In the Checklist, select Retry. The Retry panel is displayed.
2. Configure the retry options for connecting to a Taleo application.

The following table describes the retry options for connecting to a Taleo application:

Table 1. Retry options

Retry Fields	Description
Wait __ second(s) between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the Taleo application. By default, this parameter is set to 30 seconds.
Try to connect __ times before failing.	Specifies the maximum number of times that the Integration Appliance attempts to establish a connection to the Taleo application before issuing an error and stopping the processing of the current orchestration job. By default this parameter is set to 5 attempts.
<b>Activity Timeout</b>	
Time out after __ second(s) when the endpoint does not respond to a request.	Specifies the number of seconds the Integration Appliance waits before timing out, when the endpoint does not respond to a request. The default is 300 seconds.

## Results

---

You have configured the retry parameters for Taleo activities.

**Parent topic:** [Taleo activities](#)

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## Web Services Activities

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- [Creating or Editing a Web Services Endpoint](#)

You can define two types of Web Services endpoints.

- [Updating a Changed WSDL](#)

If you created a project that uses a WSDL and the WSDL changes, you can attempt to update the existing WSDL with the new WSDL.

- [Web Services Invoke Service Activity](#)

During run time, the Web Services **Invoke Service** activity starts an outside Web Service.

- [Compression/Decompression with the Web Services Invoke Service Activity](#)

During run time, the Web Services Invoke Service activity sends a HTTP request complaint with the HTTP/HTTPS 1.1 protocol to the Web Service. The Invoke Service activity supports compression with the gzip format only and decompression with the gzip or the deflate formats.

- [Web Services Provide Service Activity](#)

During run time the Provide Service activity provides a Web Service that can be started from an outside client.

- [Decompression with the Web Services Provide Service Activity](#)

The Web Services Provide Service activity supports decompression with the gzip format only.

- [Web Services Send Reply Activity](#)

During run time, the Send Reply activity returns a response for a Provide Service activity.

- [Web Services Send Reply with Fault Activity](#)

During run time, the Send Reply with Fault activity returns a fault to the calling orchestration. This activity provides SOAP functionality as a reply configuration option.

- [Compression with the Web Services Send Reply Activity](#)

During run time, the Web Services Send Reply activity sends an HTTP response complaint with the HTTP/HTTPS 1.0 protocol to the client. The Send Reply activity supports compression with the gzip format only.

- [Troubleshooting and support](#)

Troubleshooting techniques and self-help information help you identify and solve problems quickly. Here, you can find potential solutions for issues you would have with the Web Services connector.

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## Creating or Editing a Web Services Endpoint

---

You can define two types of Web Services endpoints.

### About this task

---

For the **Invoke Service** activity - the endpoint defines the remote Web Service server and service that is started during run time.

For the **Provide Service** activity - the endpoint defines the port number and the path of the service provided by the Integration Appliance.

- [Creating or editing an endpoint for an Invoke Service activity](#)  
Create or edit a Web Service endpoint for a **Invoke Service** activity.
- [Creating or editing an endpoint for a Provide Service activity](#)  
Create or edit a Web Service endpoint for a Provide Service activity.

**Parent topic:** [Web Services Activities](#)

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## Creating or editing an endpoint for an Invoke Service activity

---

Create or edit a Web Service endpoint for a **Invoke Service** activity.

### Procedure

---

1. In the Create Endpoint or Edit Endpoint pane, select the Remote Server option and click Browse. The Project Explorer displays.
2. In the Project Explorer pane, you can select one of the following options to select a WSDL file:
  - In the Project Explorer pane, select an existing WSDL file that has already been [uploaded into the project](#).
  - Select a WSDL file from the file system: Click Add. In the Add dialog box, browse for the WSDL file and click Add.
  - Download a WSDL file from a URL: Click Add URL. In the Add field, enter the URL of the WSDL to download. Click OK.

Note:

- The WSDL file you select must be compatible with the WSDL 1.1 and WS-I Basic Profile 1.1 specifications.
- While editing an existing Web Service endpoint that is referenced by an Invoke Service activity, if you select a different WSDL for the endpoint, you must select the appropriate operation in the Configure task of the [Web Services Invoke Service Activity](#). Â

The WSDL Name, Service, Port, and Location fields display with the values specified in the WSDL file as described in the following list:

WSDL Name

**XML element in the WSDL file that defines this field:**

```
<definitions targetNamespace="http://www.acme.com/wsdl/hello.wsdl"
  xmlns="http://schemas.xmlsoap.org/wsdl/"
  xmlns:tns="http://www.acme.com/wsdl/hello.wsdl"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <wsdl:service name="HelloService">
    <wsdl:port name="HelloPort" binding="tns:HelloBinding">
      <wsdl:operation name="sayHello">
        <wsdl:input message="tns:sayHelloRequest"/>
        <wsdl:output message="tns:sayHelloResponse"/>
      </wsdl:operation>
    </wsdl:port>
  </wsdl:service>
</definitions>
```

**Description:** Specifies the name of the Web Service and the namespaces used in the WSDL. In addition, the definitions element is the root element for the rest of the elements that define the Web Service. These other elements are contained within the </definitions> elements in WSDL.

#### Service

##### **XML element in the WSDL file that defines this field:**

```
<service name="HelloWorld">
  <port name="HelloWorld" binding="s0:HelloWorld">
    <soap:address location="http://localhost:7001/WS/HelloWorld.jws"/>
  </port>
</service>
```

**Description:** Specifies the name of the service. In the WSDL, the service element contains the port and location elements that define the location of the service. One or more services can be defined in a WSDL. If more than one service is defined, you can select a service by selecting the menu in the Service field of the endpoint pane.

#### Port

##### **XML element in the WSDL file that defines this field:**

```
<port name="HelloWorld" binding="s0:HelloWorld">
  <soap:address location="http://localhost:7001/WS/HelloWorld.jws"/>
</port>
```

**Description:** Specifies the binding of the service. One or more ports can be defined per service in a WSDL. If more than one port is defined for the service, you can select a port by selecting the menu in the Port field of the endpoint pane.

#### Location

##### **XML element in the WSDL file that defines this field:**

```
<soap:address location="http://localhost:7001/WS/HelloWorld.jws"/>
```

**Description:** Specifies the address for starting the specified service. Typically this is the URL for starting the Soap service.

3. Select a service from the Service list. See the previous table for details.

4. Select a port from the Port list. See the previous table for details.

5. Choose a Login option and specify settings described in the following table as needed.

Note: These options are only available when you select the Remote Server Location option.

Table 1. Login options

Option/Fiel d Name	Description
Log into the Server as an Anonymous User	Select this option to connect to the server anonymously. No user account information is required.
Log into the Server with User Name and Password	Select this option to connect to the server using a user account. When you select this option, you must choose an authentication mode and specify a user name and password.
Authenticati on	Allows you to select the type of authentication that the Integration Appliance uses when connecting to a remote server. From the list, select one of the following authentication modes: <ul style="list-style-type: none"> <li>o Basic - Sends the user name and password you specify unencrypted to the server. This authentication schema is the least secure. Note: If the Remote Server is Cast Iron Live web service provider, then use the IBM ID credential for basic authentication.</li> <li>o Digest - Encrypts the user name and password you specify before sending the user name and password to the server. This authentication option is more secure than Basic authentication.</li> <li>o NTLM - Requires an instance of NTCredentials to be available for the domain name of the server. This authentication is the most secure authentication option. When you choose the NTLM authentication option, the Integration Appliance authenticates a connection and not a request; therefore, the Integration Appliance authenticates every time a new connection is made. The connection must remain open during the authentication process. You cannot use NTLM to authenticate with both a proxy and server. Note: Do not prefix the user name with the domain.</li> </ul>

Option/Field Name	Description
Realm/Domain	<ul style="list-style-type: none"> <li>o If you select the Basic or Digest authentication option, you can specify a realm. When you do not specify a realm, the activity authenticates to 'any realm'.</li> <li>o If you select the NTLM authentication option, you must specify a domain. If you do not specify a domain, the endpoint configuration is not valid and an error occurs.</li> </ul>
User Name	Specifies the User Name for the account used to connect to the Server.
Password	Specifies the Password for the account used to connect to the HTTP Server.

6. Specify security options.

When client authentication is required, select the Client Certificate Alias Name check box to specify that the Integration Appliance acting as a client should provide a certificate to the HTTP Server. If selected, the name of the certificate must be provided. A certificate specified at the activity level with this check box takes precedence over a certificate specified on the **Security-> Certificates-> Settings-> Client SSL** entry in the WMC.

Select the **Protocol Version** used for secure HTTP over SSL. By default, the protocol version used is **SSL\_TLSv2**.

7. For the Connection Pool Options, specify the maximum number of connections.

This value specifies the maximum number of connections that the Integration Appliance has open in the connection pool. By default, the Integration Appliance can have 25 connections open.

8. Specify the Connection Timeout. The connection timeout specifies the amount of time in seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the Endpoint and the time it takes for the Endpoint to respond to the connection request. For a Web Services activity, the amount of time the Integration Appliance attempts to establish a connection to the Web Service before timing out. A connection timeout is different from an activity timeout because an activity timeout occurs after the connection to the Endpoint has already been established. An activity timeout specifies the amount of time in seconds before a timeout occurs between the activity invoking a request on an Endpoint and the time it takes the Endpoint to respond. You set the activity timeout in Retry task of the [Web Services Invoke Service Activity](#).

9. Optional - To connect the Web Service through a proxy server, select the Connect via a Proxy Server check box and specify the fields defined in the following table:

Figure 1. Web Service options

Table 2.

Field name in Endpoint pane	Description	Required or Optional?
Host Name	Specifies the hostname of the proxy server.	Required
Port	Specifies the port number to use to connect to the proxy server.	Required
User Name	Specifies the username to use for proxy server authentication.	Optional - If your proxy server does not require authentication
Password	Specifies the password to use for proxy server authentication.	Optional - If your proxy server does not require authentication

**Parent topic:** [Creating or Editing a Web Services Endpoint](#)

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## Creating or editing an endpoint for a Provide Service activity

Create or edit a Web Service endpoint for a Provide Service activity.

## Procedure

---

1. In the Create Endpoint or Edit Endpoint pane, select the Provide option and configure the relevant fields.  
Note: Changing the configuration properties of an endpoint affects all of the orchestrations that use that endpoint in the project. These changes are global, not local.

2.

### Transport

Select one of the following transport options:

- HTTP : Select this option if the Web Service provide project is to be deployed on an Integration Appliance .
- Cast Iron Cloud : Select this option if the Web Service provide project is to be deployed on Cast Iron Live.
- Local : Select this option if this orchestration is called locally by other orchestrations. It can be used in Studio and on an Integration Appliance.

### Port

Specifies the port number to communicate with the Integration Appliance acting as the Web Service.

CAUTION:

This port number is different to the port name specified in the WSDL.

### Path

The path string specified in this field is added to the URL of the Integration Appliance to form the location element of the generated WSDL. For example, if your Integration Appliance is named: myAR.myCompany.com and the string specified in the Path field is /services/myservice/1.0, the resulting location element in the WSDL file is equal to the following string: http://myAR.myCompany.com/services/myservice/1.0

### Login

- Select the Log into the Server as an Anonymous User option to connect to the endpoint server anonymously (where a user account is not required).
- Select the Log into the Server with User Name and Password option connect to the endpoint server using a user account. Specify the User Name and Password.
- Select the type of Authentication to authenticate with the remote server.
  - **Basic** - Sends the user name and password you specify, base64 encoded as part of the HTTP Authorization header to the server.
- Specify the Realm.
- Specify the User Name for the account used to connect to the endpoint server.
- Specify the Password for the account used to connect to the endpoint server.

### Security

- Select the None option if no security is required.
- Select the HTTPS option to enable secure Web Service over SSL. Â
  - Available for the HTTP transport option only. When server authentication is required, select the Server Certificate Alias Name check box to specify that the Integration Appliance acting as a server provides a certificate to the client. This certificate is used by the client for authentication and encryption. If this check box is selected, the name of the certificate must be provided. A certificate specified at the activity level with this check box, takes precedence over certificates specified on the Security > Certificates > Settings > Server SSL over data NIC entry in the WMC.
- Select the Protocol Version used for secure HTTP over SSL. By default, the protocol version used is SSL\_TLSSv2.

### Connection Pool Options

The Maximum Connections parameter specifies the maximum number of connections that the Integration Appliance can open in the connection pool. By default, the Integration Appliance can have 25 connections open.

Note: For some of the fields in the endpoint, you can define configuration properties to supply the values for these fields. The  icon displays when you click in a field that supports a configuration property and a configuration property of the same type is already configured for the project.

**Parent topic:** [Creating or Editing a Web Services Endpoint](#)

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# Updating a Changed WSDL

If you created a project that uses a WSDL and the WSDL changes, you can attempt to update the existing WSDL with the new WSDL.

## About this task

Updating a WSDL means that any entities that interface with the WSDL might be affected by the change. For example, the WSDL defines the input and output parameters of the operation and if the schema that defines these parameters changes in the new WSDL, the nodes that represent these parameters in the **Map Inputs** and **Map Outputs** tasks of the Web Services activities might no longer exist and any links to these nodes are no longer valid. You must recreate the links in order for the orchestration to be valid again.

Updating a WSDL might require other changes to the project besides recreating links, for details see Table 1. In some cases, the new WSDL is not loaded as described in the first three rows in the following table.

Note: Updating an existing WSDL is different from loading multiple WSDLs into a project by either dragging a file into the Project tab or right-clicking on the WSDL folder in the Project tab and selecting Add Document. Updating a WSDL replaces the existing WSDL in the project, while uploading the same file into the Project tab creates two instances of the WSDL in the project.

Table 1.

Change in WSDL	New WS DL replaces the initial WSDL?	How is the project affected?
New WSDL is not a valid WSDL. For example the final <code>&lt;/definitions&gt;</code> tag is missing at the end of the WSDL.	No, the update does not occur	None, the new WSDL is not loaded. No updates occur to any of the project entities.
Uploading the new WSDL to replace the existing one, would result in an invalid project.	No, the update does not occur	None, the new WSDL is not loaded. No updates occur to any of the project entities.
Attempt to update the current WSDL with a different WSDL and an orchestration or an endpoint in the project refers to the current WSDL. Note: You can load multiple WSDLs into a project.	No, the update does not occur	None, the new WSDL is not loaded. No updates occur to any of the project entities.
The Service Binding definition of the WSDL is defined by the service, port, and location elements. If the values of the service, port and location elements in the WSDL change, the values for these elements that are stored in the Web Service endpoint must be updated.	Yes, update occurs	The values in the Web Service endpoint are updated with the newest values specified in the WSDL. For details about these elements, see <a href="#">Creating or Editing a Web Services Endpoint</a> .

Change in WSDL	New WS DL replaces the initial WS DL?	How is the project affected?
The name of an operation changes in the WSDL and the orchestration is starting that operation in an <b>Invoke Service</b> activity.	Yes, update occurs	If the name of the operation changes and the operation is used by the <b>Invoke Service</b> activity, the first operation in the WSDL is by default assigned to the <b>Invoke Service</b> activity. This reassigning to the first operation might not be the wanted result. The input and output parameters of the first operation in the WSDL might be different than the operation originally specified and therefore the links might no longer exist in the <b>Map Inputs</b> and <b>Map Outputs</b> tasks. You must configure the <b>Invoke Service</b> activity again for the orchestration to be valid.
The name of one of the operations changes in the WSDL but the orchestration is not starting that operation in any <b>Invoke Service</b> activities.	Yes, update occurs	If the name of the operation changes and that operation is not used any <b>Invoke Service</b> activities, this change to the WSDL has no affect.
<p>Additional <i>&lt;part&gt;</i> elements are added to the elements that define the input or output parameters of the operation. This change affects any project entity that references this part of the WSDL. The following is a list of possible affected entities:</p> <ul style="list-style-type: none"> <li>• Standalone Maps</li> <li>• <b>Map Variables</b> activity</li> <li>• Variables based on this part of the WSDL</li> <li>• An orchestration that contains an <b>Invoke Service</b> activity which starts an operation that uses this message type. For example, to the following example <i>&lt;message&gt;</i> element</li> </ul> <p>For example, see <a href="#">Figure 1</a>.</p>	Yes, update occurs	Since new <i>&lt;part&gt;</i> elements have only been added to the <i>&lt;message&gt;</i> element, typically this change has no affect on the existing maps and variables based on the WSDL. For the <i>&lt;HelloIn&gt;</i> message example, adding the new city element has no affect on links to the existing address <i>&lt;part&gt;</i> element in the <b>Map Inputs</b> or <b>Map Outputs</b> tasks of the <b>Invoke Service</b> activity. If required, you can create links to the new element.
<p>Change the type of a <i>&lt;part&gt;</i> element in a <i>&lt;message&gt;</i> element that define the input and output parameters of the operation. This change affects any project entity that references this part of the WSDL. The following is a list of possible affected entities:</p> <ul style="list-style-type: none"> <li>• Standalone Maps</li> <li>• <b>Map Variables</b> activity</li> <li>• Variables based on this part of the WSDL</li> <li>• An orchestration that contains an <b>Invoke Service</b> activity which starts an operation that uses this message type.</li> </ul>	Yes, update occurs	<p>Any existing links in the maps are not removed even though the type might have changed.</p> <p><b>CAUTION:</b></p> <p>The type change might have run time impact, resulting in potentially bad output data. Check that any type conversions done in the links of maps do not result in bad output data being returned at run time.</p>

Change in WSDL	New WS DL replaces the initial WS DL?	How is the project affected?
<p>Change the <code>&lt;message&gt;</code> element of the input or output parameter of the operation.</p> <p>This change affects any project entity that references this part of the WSDL. The following is a list of possible affected entities:</p> <ul style="list-style-type: none"> <li>• Standalone Maps</li> <li>• <b>Map Variables</b> activity</li> <li>• Variables based on this part of the WSDL</li> <li>• An orchestration that contains an <b>Invoke Service</b> activity which starts an operation that uses this message type.</li> </ul>	Yes, update occurs	<p>Links to the input or output parameter that has changed in the map are removed. You must create links to the changed parameter in maps. For example, if the <code>&lt;message&gt;</code> element changes for the input parameter of the operation called by an <b>Invoke Service</b> activity, the links to the nodes in the <b>Map Inputs</b> task of the <b>Invoke Service</b> activity are removed. You must create links from variables to the new set of nodes that show in the To Activity pane of the <b>Map Inputs</b> task.</p>

Figure 1. Additional `<part>` elements example

```

<message name="HelloIn">
  <part name="address" type="xsd:string">
</message>
Add the following additional <part> element
<message name="HelloIn">
<part name="address" type="xsd:string">
<part name="city" type="xsd:string">
</message>

```

- **Updating a changed WSDL**

To update a WSDL, start the upgrade WSDL process using one of the following options:

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## Updating a changed WSDL

To update a WSDL, start the upgrade WSDL process using one of the following options:

### Procedure

1. Use one of the following options to start the upgrade:
  - o Double click an existing WSDL in the WSDLs folder of the Project tab. A WSDL tab displays with a graphical view of the WSDL. Drag a WSDL file from the local file system onto the WSDL open in the WSDL tab.

- o Double click an existing WSDL in the WSDLs folder of the Project tab. A WSDL tab displays with a graphical view of the WSDL. Click on a node of the WSDL in the WSDL tab. Select the File > Update WSDL or XML Schema option from Studio toolbar menu. The Update the Current WSDL Document dialog box displays. In the Location field, [specify the location of the new WSDL from an external web location or from the file system](#) and click OK.
- o Double click an existing WSDL in the WSDLs folder of the Project tab. A WSDL tab displays with a graphical view of the WSDL. Right-click a node in the WSDL tab and from the menu and select the Update option. The Update the Current WSDL Document dialog box displays. In the Location field, [specify the location of the new WSDL from an external web location or from the file system](#) and click OK.
- o Right-click an existing WSDL in the WSDLs folder of the Project tab and from the menu select the Update option. The Update the Current WSDL Document dialog box displays. In the Location field, [specify the location of the new WSDL from an external web location or from the file system](#) and click OK.

The Updating the WSDL Affects the Listed Dependant Project Entities dialog box displays and project entities that are affected by the replacement of the original WSDL with the new WSDL are listed.

2. Optional - In the dialog box, click any of the listed dependant entities to view the entity in Studio.
3. Click Update. Studio attempts to update the project with the new WSDL and the result of the attempted update depends on the following conditions:
  - o If any of the changes in the WSDL would result in a corrupt project after the update or the new WSDL is invalid, an Error dialog box displays describing the problem with the WSDL. Click OK and click Close. The update is canceled, the WSDL reverts to the original WSDL, and the project is not changed.
  - o If none of the changes to the WSDL would result in a corrupt project, the update occurs and the original WSDL is replaced by the new WSDL. Some of the project entities might be invalid after the update and could require clean up.
  - o Click Close.

**Parent topic:** [Updating a Changed WSDL](#)

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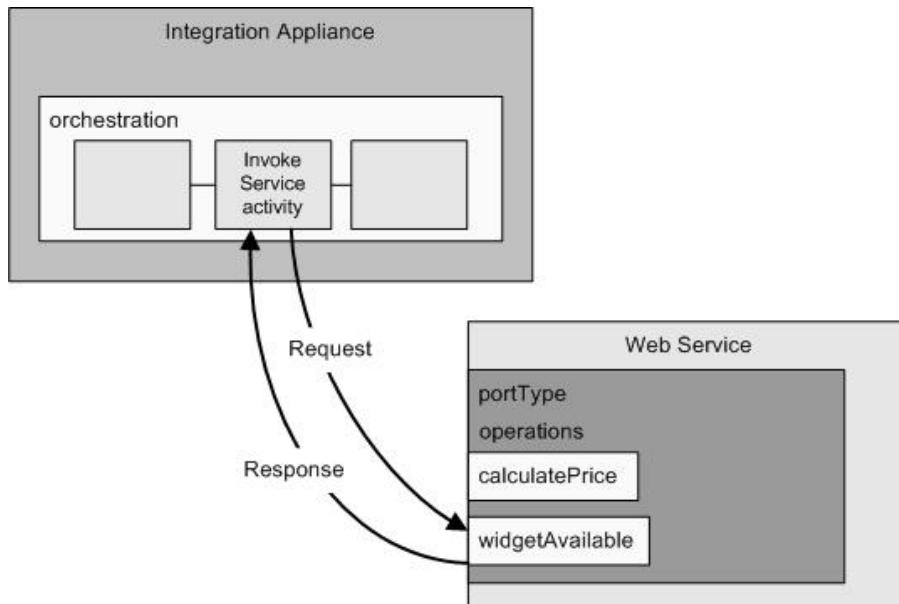
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## Web Services Invoke Service Activity

During run time, the Web Services **Invoke Service** activity starts an outside Web Service.

### About this task



The Web Services connection activity is a single-operation activity. It connects to a single service on a single portType in a Web Service. If you specify a WSDL containing more than one operation, select which operation the activity should start.  
Note: Web Services Basic Profile 1.1 2nd Edition is supported. SOAP encoding arrays are not supported in the Web Services Basic Profile 1.1.

By default, compression and decompression are enabled for the **Invoke Service** activity. For more information, see Compression/Decompression with the Web Services **Invoke Service** activity.

The steps for adding and configuring an **Invoke Service** activity to an orchestration are described in the following procedures:

- [Adding an activity](#)  
Add a Web Services **Invoke Service** activity in the orchestration.
- [Creating an endpoint](#)  
Create, select, or edit a Web Services endpoint.
- [Configuring the activity](#)  
Configure the **Invoke Service** activity.
- [Specifying the retry options](#)  
Specify the retry options for the **Invoke Service** activity.
- [Mapping the inputs of the activity](#)  
Map the inputs of the **Invoke Service** activity.
- [Mapping the outputs of the activity](#)  
Map the output of the **Invoke Service** activity.
- [Invoking an Orchestration with Web Services Provide Service Starter Activity](#)  
Invoke Service tool enables in house invocation of an orchestration with Web Services Provide Activity.

**Parent topic:** [Web Services Activities](#)

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## Adding an activity

---

Add a Web Services **Invoke Service** activity in the orchestration.

### Procedure

---

1. [Create](#) or open an orchestration. A graphical representation of the orchestration displays.
2. Select the Activities tab and expand the Web Services folder.
3. Drag the Invoke Service activity onto the orchestration.
4. Select the activity. The Checklist is displayed.

**Parent topic:** [Web Services Invoke Service Activity](#)

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## Creating an endpoint

---

Create, select, or edit a Web Services endpoint.

## Procedure

---

1. Click Pick Endpoint task from the Checklist and choose from one of the following actions:
  - Select an existing endpoint:
    - a. Select Browse. The Project Explorer displays.
    - b. Select an existing endpoint and click OK. Skip to the[Configuring the activity](#) procedure.
  - Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer displays.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint pane displays.
  - Create a new endpoint: Select New. The Create Endpoint pane displays.
2. [Create or edit a Web Services endpoint.](#)

**Parent topic:** [Web Services Invoke Service Activity](#)

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## Configuring the activity

---

Configure the **Invoke Service** activity.

## Procedure

---

1. Select the Configure task from the Checklist. The Configure pane is displayed.
2. Select a single operation to start on the Web Service.
3. The Use Compression/Decompression check box specifies if compression/decompression is turned on or off at the activity level. By default, the Use Compression/Decompression check box is selected. Clear the Use Compression/Decompression check box to disable compression and decompression for this activity. For more information, see [Compression/Decompression with the Web Services Invoke Service Activity](#).
4. The Message Transmission Optimization Mechanism (MTOM) when checked specifies using MTOM to efficiently send SOAP messages containing binary data.

**Parent topic:** [Web Services Invoke Service Activity](#)

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## Specifying the retry options

---

Specify the retry options for the **Invoke Service** activity.

## Procedure

---

1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
2. Configure the retry options for connecting to a Web Service. The following table describes the retry options for connecting to a Web Service:

Field	Description
-------	-------------

Retry	Â
Wait --- second (s) betwee n each retry.	Specifies the amount of time (in seconds) that the Integration Appliance waits before trying to establish a connection to the Web Service.
Try to connec t --- times before failing.	<p>Specifies the retry count - the maximum number of times the Integration Appliance attempts to establish a connection to the Web Service before issuing an error and stopping the processing of the current orchestration job.</p> <p>If you deploy an orchestration that contains a Web Services Invoke Service activity and the Integration Appliance cannot connect to the specified Web Service, the Integration Appliance logs the connections errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system and orchestration logs and stops processing the current orchestration job.</p> <p>For example, the retry count is set to 3. The first, second, and third connection errors are shown in the system log as Warnings. The Integration Appliance logs the fourth connection error as an Error and stops processing the current orchestration job.</p>
Time out after --- second s when the Endpoi nt does not respon d to a request . .	Specifies the amount of time in seconds before a timeout occurs between the activity making a request on an Endpoint and the time it takes the Endpoint to respond. For the Web Services Invoke Service, the activity timeout is the amount of time that the Integration Appliance waits for a response from the Web Service after attempting to start the Web Service, before the Integration Appliance issues a timeout error. An activity timeout is different from a connection timeout because an activity timeout occurs after the connection to the Endpoint has been established. A connection timeout specifies the amount of time in seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the Endpoint and the time it takes for the Endpoint to respond to the connection request. Set the connection timeout in Web Services Endpoint tab. For more information about connection timeouts, see <a href="#">Creating or Editing a Web Services Endpoint</a> .

**Parent topic:** [Web Services Invoke Service Activity](#)

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## Mapping the inputs of the activity

---

Map the inputs of the **Invoke Service** activity.

### About this task

---

The XML input parameter for the operation selected in the Configure task is shown beneath the body input parameter listed in the To Activity pane of the Map Inputs task.

To view the optional input parameters called location, header, and httpheaders in the To Activity pane of the Map Inputs pane, select Map > Show Optional Parameters from the toolbar menu or right-click in the To Activity pane and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click a node in the Map Inputs pane to make this option active.

You can override the setting of the location element specified in the WSDL using the optional location input parameter. The location element in the WSDL, specifies the URL endpoint. A request to start a Web Services is made to the URL Endpoint.

The schema of the header input parameter is defined by WSDL. The header input parameter is optional because Web Service you start might not require a header.

The following table defines the nodes of the optional httpheaders input parameter.

<b>Nodes of the httpheaders Input Parameter</b>	<b>Description</b>
httpheaders/uri	Specifies the resource path, for example: /myPath.
httpheaders/method	Specifies the type of HTTP request.
httpheaders/otherHeaders/headerItem	Specifies an element that contains a set of HTTP header parameters as name/value pairs. Multiple HTTP header parameters can be specified in the HTTP request, so this is a recurring node.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP header parameter.
httpheaders/otherHeaders/headerItem/value	Specifies the value of the HTTP header parameter.

Note: If the Content-Length header is explicitly set using the httpheaders/otherHeaders/headerItem/name and httpheaders/otherHeaders/headerItem/value, during run time this value is ignored. This activity automatically sets the Content-Length header to the size of the body.

You can optionally override the settings you specified for the proxy server in the Configure and Pick Endpoint task of the Checklist by providing values for the proxyConnection input parameter dynamically during run time. The following table defines the nodes of the optional proxyConnection input parameter:

<b>Input Parameter Name/Node</b>	<b>Description</b>	<b>Overrides the Setting in Task?</b>
proxyConnection/host	Specifies the hostname of the proxy server.	The host node of the proxyConnection input parameter overrides the Proxy Host Name field of the Web Services Endpoint.
proxyConnection/port	Specifies the port number to use to connect to the proxy server.	The port node of the proxyConnection input parameter overrides the Proxy Port field of the Web Services Endpoint.
proxyConnection/username	Specifies the username to use for proxy server authentication. This field is optional if your proxy server does not require authentication.	The username node of the proxyConnection input parameter overrides the Proxy User Name field of the Web Services Endpoint.
proxyConnection/password	Specifies the password to use for proxy server authentication. This field is optional if your proxy server does not require authentication.	The password node of the proxyConnection input parameter overrides the Proxy Password field of the Web Services Endpoint.

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## Mapping the outputs of the activity

---

Map the output of the **Invoke Service** activity.

### Procedure

---

- Select the Map Outputs task in the Checklist. The output parameters of the activity display in the From Activity pane of the Map Outputs task as described in the following table.

Output Parameter	Description
body	Contains the body of the response from the Web Service. The nodes that defines the return parameter or parameters of the Web Service operation displays under the body output parameter.
header	Contains the header of the SOAP Envelope.
httpheaders	Contains the header of the HTTP response.

The following table defines the nodes of the httpheaders output parameter.

Nodes of the httpheaders Output Parameter	Description
httpheaders/uri	Specifies the resource path, for example: /myPath.
httpheaders/method	Specifies the type of HTTP response.
httpheaders/otherHeaders/headerItem	Specifies a set of name/value pairs that contain the HTTP parameters of the HTTP response. Multiple HTTP parameters can be specified in the HTTP response, so headerItem is a recurring node.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP parameter.
httpheaders/otherHeaders/headerItem/value	Specifies the value of the HTTP parameter.

- Map the output nodes of the activity to orchestration variables. See [Creating a Map](#) for general instructions on mapping.

**Parent topic:** [Web Services Invoke Service Activity](#)

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## Invoking an Orchestration with Web Services Provide Service Starter Activity

---

Invoke Service tool enables in house invocation of an orchestration with Web Services Provide Activity.

### About this task

---

Use this task to create/ modify SOAP request based on configured schema for starter Web Services Provide Activity, and then invoke an orchestration that handle responses.

### Procedure

---

To Invoke an Orchestration, complete the following steps:

- Open an orchestration with Web Services Provide Service Starter Activity. A graphical representation of the orchestration is displayed in the Studio Workspace.
- Right-click Provide Service activity and select Invoke Service. The Invoke Service pane is displayed.

3. This pane displays a generated template request message. You can either fill the required details in the template request message or click Open to select a different text request message.
4. Click Save to save the current request message.
5. Click Execute to invoke a web service and hence an orchestration. It also enables you to retest a particular activity with the current request message by saving the request message across the Studio Start up.
6. Click Show Response to view the web service response.  
Note: Click Reset to reset the current request message to the template request message.

**Parent topic:** [Web Services Invoke Service Activity](#)

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## Compression/Decompression with the Web Services Invoke Service Activity

---

During run time, the Web Services Invoke Service activity sends a HTTP request complaint with the HTTP/HTTPS 1.1 protocol to the Web Service. The Invoke Service activity supports compression with the gzip format only and decompression with the gzip or the deflate formats.

Note: The Invoke Service activity does not support the common UNIX file compression format called compress.  
The compression/decompression run-time behavior of the Invoke Service activity is dependant on the following conditions:

- If the Endpoint supports compression/decompression
- Content-Encoding and Accept-Encoding Values at the Message Level
- The setting of the Use Compression/Decompression check box at the activity level

The affect of these conditions on the compression/decompression run-time behavior of the Invoke Service activity are described in the following sections and in the tables provided in the [Run-time Compression/Decompression Behavior](#) section.

### Endpoint Support for Compression/Decompression

---

The Integration Appliance determines whether or not the HTTP Endpoint supports compression when the Integration Appliance sends the first HTTP request in the compressed format to the HTTP Endpoint (the Web Service), if the Web Service returns an error code indicating that Web Service does not support compression or does not support the specified Content-Encoding type, the Integration Appliance resends the first request in uncompressed format and all subsequent requests to this Endpoint are sent in the uncompressed format. In addition, the HTTP response sent by the Web Service is not decompressed when received by Integration Appliance.

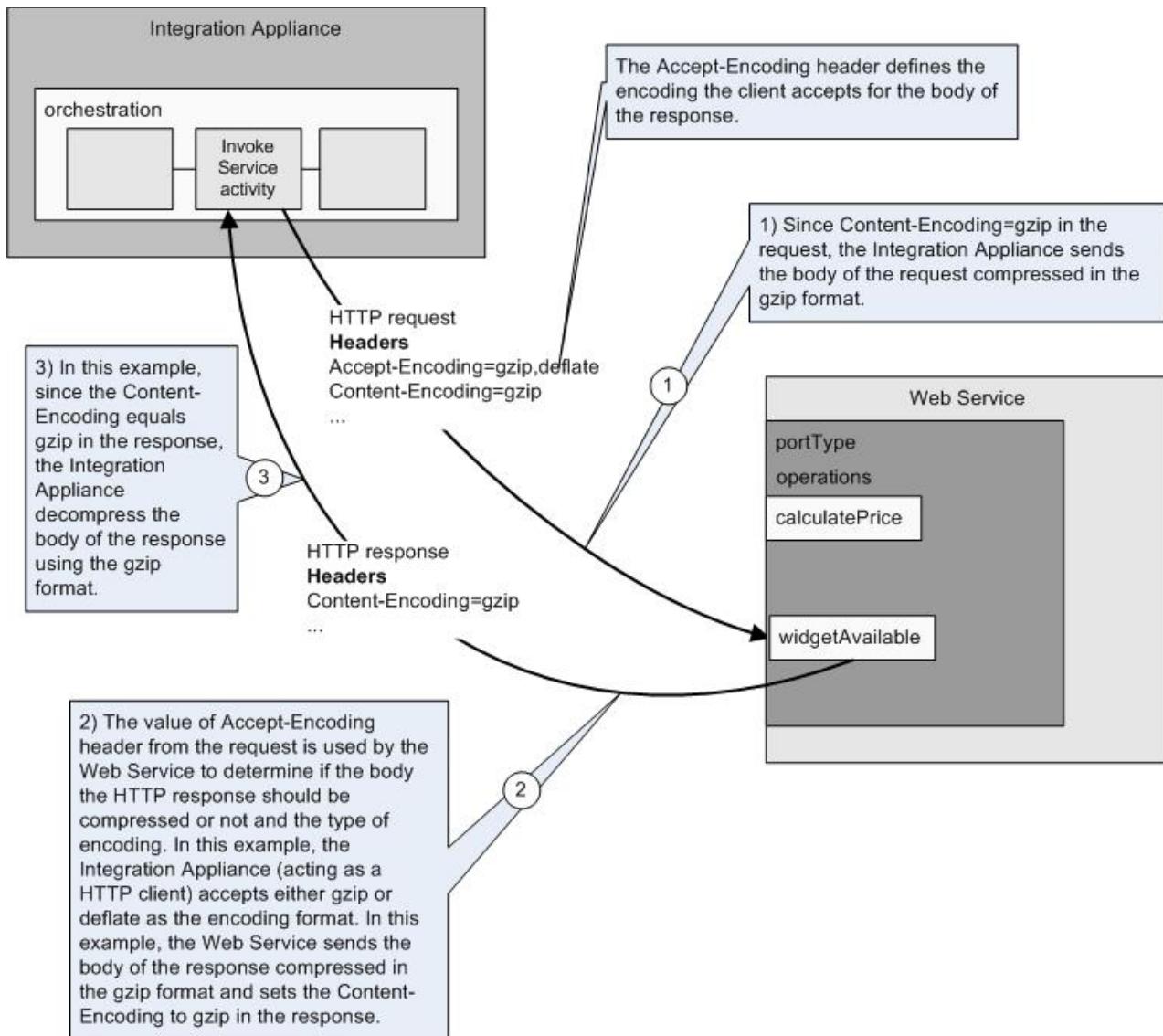
Endpoint support for compression/decompression is represented by the fourth column labeled Endpoint Supports Compression? in the tables provided in the [Run-time Compression/Decompression Behavior](#) section.

### Content-Encoding and Accept-Encoding Values at the Message Level

---

The value of the Content-Encoding header in the HTTP request determines if the body of the request is compressed or not using. For the Invoke Service activity, the Integration Appliance sets the Content-Encoding to gzip and sends the body of the request compressed in the gzip format as shown in the second row of the first table labeled [Compression Behavior When Sending a Request](#) and in the following figure.

The value of the Accept-Encoding header in the request defines the types of encoding that the HTTP client accepts in the response. For the Invoke Service activity, the Integration Appliance sets the Accept-Encoding equal to gzip,deflate in the request and the Web Service sends the body of the response compressed in either the gzip or the deflate format to the Integration Appliance (acting as a client) as shown in the following figure:



The values of the `Accept-Encoding` and `Content-Encoding` headers in the request are used by the Integration Appliance and the Web Service to determine the compression/decompression behavior.

## Setting Compression/Decompression at the Activity Level

By default, compression and decompression are turned on at the activity level for the **Invoke Service activity**. You can turn off compression/decompression at the activity level by clearing the **Use Compression/Decompression** check box. The **Use Compression/Decompression** check box is available in the **Configure** task of the activity. The second column labeled **Use Compression/Decompression** check box in the following tables provided in the **Run-time Compression/Decompression Behavior** section, represents the setting of the **Use Compression/Decompression** check box.

**Deprecation Note:** The **Use Compression/Decompression** check box will be deprecated in a future release. Use the `Content-Encoding` and `Accept-Encoding` HTTP Parameters in the HTTP request to specify how to decompresses the body of the HTTP request and compress the body of the HTTP response.

## Run-time Compression/Decompression Behavior

The first table provided in the [Compression Behavior When Sending a Request](#) section, describes the compression run-time behavior when the Integration Appliance sends a HTTP request to the Web Service.

The second table provided in the [Accept-Encoding Header Value Passed to the Request](#) section, describes the value of the `Accept-Encoding` header passed in the HTTP request.

The third table provided in the [Decompression Behavior When Receiving a Response](#) section, describes the decompression run-time behavior when the Integration Appliance receives the HTTP response from the Web Service.

## Compression Behavior When Sending a Request

The following table describes the compression run-time behavior when the Integration Appliance sends a HTTP request to the Web Service.

Use Compression/Decompression Check Box (Activity Level)	Content-Encoding Value in the HTTP Request (Message Level)	Endpoint Supports Compression?	Integration Appliance Compression Run-Time Behavior When Sending a Request
selected	gzip	yes	The Integration Appliance sends the body of the request compressed in the gzip format. The Content-Encoding header is set to gzip in the request.
selected	value is not significant	no	The Integration Appliance sends the body of the request uncompressed. The Content-Encoding header is set to identity in the request.
cleared	value is not significant	value is not significant	The Integration Appliance sends the body of the request as is (unchanged). The current value of the Content-Encoding header is passed as is in the request

## Accept-Encoding Header Value Passed to the Request

The following table describes the value of the Accept-Encoding header passed in the HTTP request.

Use Compression/ Decompression Check Box (Activity Level)	Initial Accept-Encoding Value	Endpoint Supports Compression?	Accept-Encoding Value Passed in the HTTP Request to the Web Service
selected	gzip,deflate	yes	The Accept-Encoding header is set to gzip,deflate in the request.
value is not significant	value is not significant	no	The current value of the Accept-Encoding header is passed as is in the request.
cleared	value is not significant	value is not significant	The current value of the Accept-Encoding header is passed as is in the request.

## Decompression Behavior When Receiving a Response

The following table describes the decompression run-time behavior when the Integration Appliance receives the HTTP response from the Web Service.

Use Compression/ Decompression Check Box (Activity Level)	Content-Encoding Value in the HTTP Response (Message Level)	Endpoint Supports Compression?	Integration Appliance Decompression Run-Time Behavior When Receiving a Response
selected	gzip	yes	The Integration Appliance decompresses the body of the response using the gzip format.
selected	deflate	yes	The Integration Appliance decompresses the body of the response using the deflate format.
selected	identity	yes	The Integration Appliance does not decompress the body of the response.
selected	value not listed in the Accept-Encoding header	yes	The Integration Appliance logs an error that the response data was received in an unsolicited content encoding type.
selected	value is not significant	no	The Integration Appliance does not decompress the body of the response. The current value of the Content-Encoding header is passed as is in the response.
cleared	value is not significant	value is not significant	The Integration Appliance does not decompress the body of the response. The current value of the Content-Encoding header is passed as is in the response.

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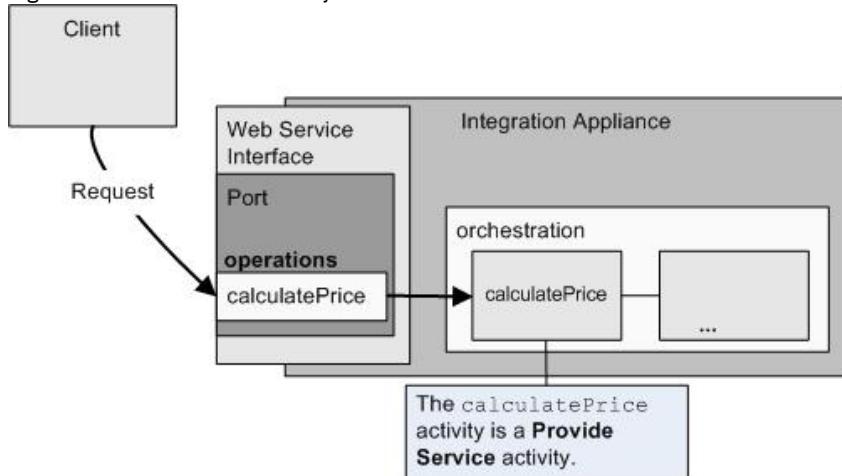
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/WS\\_Compression\\_Decompression\\_with\\_the\\_WS\\_Invoke\\_Service\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/WS_Compression_Decompression_with_the_WS_Invoke_Service_Activity.html)

## Web Services Provide Service Activity

During run time the Provide Service activity provides a Web Service that can be started from an outside client.

### About this task

Figure 1. Provide Service activity



The Provide Service activity is an inbound Web Service activity. It is a starter activity that listens for Web Service requests at the specified port.

Based on the configuration information you provide in Studio about the Web Service, the WMC generates a WSDL file that describes the Web Service Interface available during run time.

When a project with a WSDL is deployed, the Web Service interface defined by the WSDL is available. You can export and then view the WSDL file that has been generated for the Web Service from the WMC.

During run time, when a client sends a request to the Web Service, the Integration Appliance starts processing the Provide Service activity and the rest of the activities that make up the orchestration.

You can only specify one input and one output XML Schema for the Provide Service activity, so the generated WSDL defines only one request header and one response header. The WMC generates a WSDL with one operation. In Figure 1, the Web Service calculatePrice operation is derived from the name of the Provide Service activity. There is a one-to-one relationship between the Web Service operation and the Provide Service activity.

By default, decompression is enabled for the Provide Service activity. For more information, see [Decompression with the Web Services Provide Service Activity](#).

The steps for adding and configuring a Provide Service activity to an orchestration are described in the following procedures.

- [Adding an activity](#)  
Add a Web Services **Provide Service** activity in the orchestration.
- [Creating an endpoint](#)  
Create, select, or edit a Web Services endpoint.
- [Configuring the activity](#)  
Configure the **Provide Service** activity.
- [Mapping the outputs of the activity](#)  
Map the output of the **Provide Service** activity.

**Parent topic:** [Web Services Activities](#)

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# Adding an activity

---

Add a Web Services **Provide Service** activity in the orchestration.

## Procedure

---

1. [Create](#) or open an orchestration. A graphical representation of the orchestration displays.
2. Select the Activities tab and expand the Web Services folder.
3. Drag the Provide Service activity onto the orchestration.
4. Select the activity. The Checklist is displayed.

**Parent topic:** [Web Services Provide Service Activity](#)

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# Creating an endpoint

---

Create, select, or edit a Web Services endpoint.

## Procedure

---

1. Click the Pick Endpoint task from the Checklist and choose from one of the following actions:
  - Select an existing endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK. Skip to the[Configuring the activity](#) procedure.
  - Select an existing endpoint and edit the endpoint:
    - a. Select Browse. The Project Explorer is displayed.
    - b. Select an existing endpoint and click OK.
    - c. Click Edit. The Edit Endpoint pane displays.
  - Create a new endpoint: Select New. The Create Endpoint pane displays.
2. [Create or edit a Web Services endpoint](#).

**Parent topic:** [Web Services Provide Service Activity](#)

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## [Feedback](#) | [Notices](#)

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# Configuring the activity

---

Configure the **Provide Service** activity.

## Procedure

---

1. Select the Configure task from the Checklist. The Configure pane is displayed.
2. Configure all the fields in this pane as described in the following table.

Field	Description
Receive Request with	Â
Schema	Defines the XML Schema of incoming XML data to the operation of the Web Service. <ul style="list-style-type: none"><li>o Click Browse... to select a schema.</li><li>o Click Clear to disassociate the selected schema from the activity.</li></ul>
Soap Header	Defines the XML Schema of the incoming Soap Header. <ul style="list-style-type: none"><li>o Click Browse... to select a schema.</li><li>o Click Clear to disassociate the selected schema from the activity.</li></ul>
This activity	Â
Requires a Reply	This check box specifies to send a reply to the sender of the request. If this option is selected, you must add a Web Services Send Reply activity to your orchestration to send a reply to the client that started it.
Schema	Defines the XML Schema of the returned XML data from the operation of the Web Service. Â (The XML data is returned by the associated Send Reply activity.) <ul style="list-style-type: none"><li>o Click Browse... to select a schema.</li><li>o Click Clear to disassociate the selected schema from the activity.</li></ul>
Soap Header	Defines the XML Schema of the returned Soap Header of the Web Service. Â (The SOAP Header is returned by the associated Send Reply activity.) <ul style="list-style-type: none"><li>o Click Browse... to select a schema.</li><li>o Click Clear to disassociate the selected schema from the activity.</li></ul>
May throw the following Faults	Â
Fault Name	Specifies user-defined fault name for the activity.
Fault Element	Click Browse to display the schema and select the element for which the fault is thrown.
Options	Â
Use Compression / Decompression	Specifies if decompression is turned on or off at the activity level. By default, the Use Compression/Decompression check box is selected. Clear the Use Compression/Decompression check box to disable decompression for this activity. For more information, see <a href="#">Decompression with the Web Services Provide Service Activity</a> .

**Parent topic:** [Web Services Provide Service Activity](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/WS\\_Provide\\_Configure\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/WS_Provide_Configure_Activity.html)

# Mapping the outputs of the activity

---

Map the output of the **Provide Service** activity.

## Procedure

---

1. Select the Map Outputs task in the Checklist. The output parameters of the activity display in the From Activity pane of the Map Outputs task as described in the following table.

Output Parameter	Description
body	Contains the body of the response from the Web Service. The nodes that defines the return parameter or parameters of the Web Service operation displays under the body output parameter.
header	Contains the header of the SOAP Envelope.
httpheaders	Contains the header of the HTTP response.

The following table defines the nodes of the httpheaders output parameter.

Nodes of the httpheaders Output Parameter	Description
httpheaders/uri	Specifies the resource path, for example: /myPath.
httpheaders/method	Specifies the type of HTTP response.
httpheaders/host	Specifies the IP address or the host name of the client.
httpheaders/otherHeaders/headerItem	Specifies a set of name/value pairs that contain the HTTP parameters of the HTTP response. Multiple HTTP parameters can be specified in the HTTP response, so headerItem is a recurring node.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP parameter.
httpheaders/otherHeaders/headerItem/value	Specifies the value of the HTTP parameter.

2. Map the output nodes of the activity to orchestration variables. See [Creating a Map](#) for general instructions on mapping.

**Parent topic:** [Web Services Provide Service Activity](#)

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## Decompression with the Web Services Provide Service Activity

---

The Web Services Provide Service activity supports decompression with the gzip format only.

Note: The Provide Service activity does not support the deflate format or the common UNIX file compression format called compress.

The **Provide Service** activity only supports receiving HTTP requests using HTTP/HTTPS 1.0 protocol.

The decompression run time behavior of the Provide Service activity when receiving an HTTP request is dependent on the following conditions:

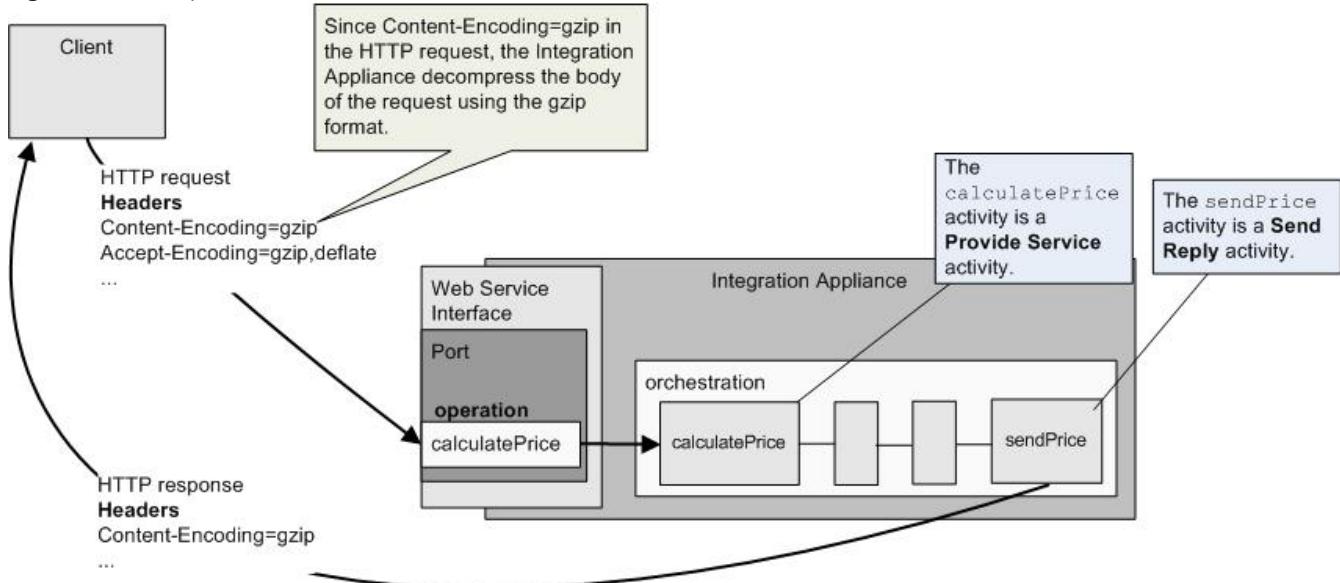
- The value of the Content-Encoding at the message level.
- The setting of the Use Compression/Decompression check box at the activity level.

These conditions affect the decompression run time behavior of the **Provide Service** activity and are described in the following sections and in the table provided in the [Run time Decompression Behavior](#) section.

## Content-Encoding Value at the Message Level

The value of the Content-Encoding header of the HTTP request can determine if the Integration Appliance decompresses the body of the HTTP request that is received from the client as shown in [Figure 1](#).

Figure 1. HTTP request



The value of the Content-Encoding header is represented by the third column labeled Content-Encoding Value in the table provided in the [Run time Decompression Behavior](#) section.

## Setting Decompression at the Activity Level

By default, decompression is turned on at the activity level for the **Provide Service** activity. You can turn off decompression at the activity level by clearing the Use Compression/Decompression check box. The Use Compression/Decompression check box is available in the **Configure** task of the activity. The second column labeled Use Compression/Decompression check box in the table provided in the [Run time Decompression Behavior](#) section, represents the setting of the Use Compression/Decompression check box.

## Run time Decompression Behavior

The following table describes the decompression run time behavior when the Integration Appliance receives an HTTP request from the HTTP Client:

Use Compression/ Decompression Check Box (Activity Level)	Content - Encoding Value (Message Level)	Integration Appliance Decompression Run Time Behavior
selected	gzip	The Integration Appliance decompresses the body of the request using the gzip format. The value of Content-Encoding is set to gzip in the headers output parameter returned from the activity.
selected	not set	The Integration Appliance sends the body of the request as is (unchanged). The value of Content-Encoding is not set in the headers output parameter returned from the activity.
selected	identify	The Integration Appliance sends the body of the request as is (unchanged). The value of Content-Encoding is not set in the headers output parameter returned from the activity.
selected	any other	The Integration Appliance sends the 415 (Unsupported Media Type) Response Code.

	string besides gzip or identity	
cleared	value is not significant	The Integration Appliance does not decompress the body of the request and the current value of Content-Encoding in the request is passed as is to the headers output parameter of the activity. For example, if the value of the Content-Encoding is set to gzip but the Use Compression/Decompression check box is cleared, the Integration Appliance does not decompress the body of the request but Content-Encoding is set to gzip in the headers output parameter of the activity.

## Compression Behavior When Sending a Request

The following table describes the compression run time behavior when the Integration Appliance sends an HTTP request to the Web Service.

### Accept-Encoding Header Value Passed to the Request

The following table describes the value of the Accept-Encoding header passed in the HTTP request.

Use Compression/ Decompression Check Box (Activity Level)	Initial Accept-Encoding Value	Endpoint Supports Compression?	Accept-Encoding Value Passed in the HTTP Request to the Web Service
selected	gzip,deflate	yes	The Accept-Encoding header is set to gzip,deflate in the request.
value is not significant	value is not significant	no	The current value of the Accept-Encoding header is passed as is in the request.
cleared	value is not significant	value is not significant	The current value of the Accept-Encoding header is passed as is in the request.

## Decompression Behavior When Receiving a Response

The following table describes the decompression run time behavior when the Integration Appliance receives the HTTP response from the Web Service.

Use Compression/ Decompression Check Box (Activity Level)	Content-Encoding Value in the HTTP Response (Message Level)	Endpoint Supports Compression?	Integration Appliance Decompression Run Time Behavior When Receiving a Response
selected	gzip	yes	The Integration Appliance decompresses the body of the response using the gzip format.
selected	deflate	yes	The Integration Appliance decompresses the body of the response using the deflate format.
selected	identity	yes	The Integration Appliance does not decompress the body of the response.
selected	value not listed in the Accept-Encoding header	yes	The Integration Appliance logs an error that the response data was received in an unsolicited content encoding type.
selected	value is not significant	no	The Integration Appliance does not decompress the body of the response. The current value of the Content-Encoding header is passed as is in the response.
cleared	value is not significant	value is not significant	The Integration Appliance does not decompress the body of the response. The current value of the Content-Encoding header is passed as is in the response.

Parent topic: [Web Services Activities](#)

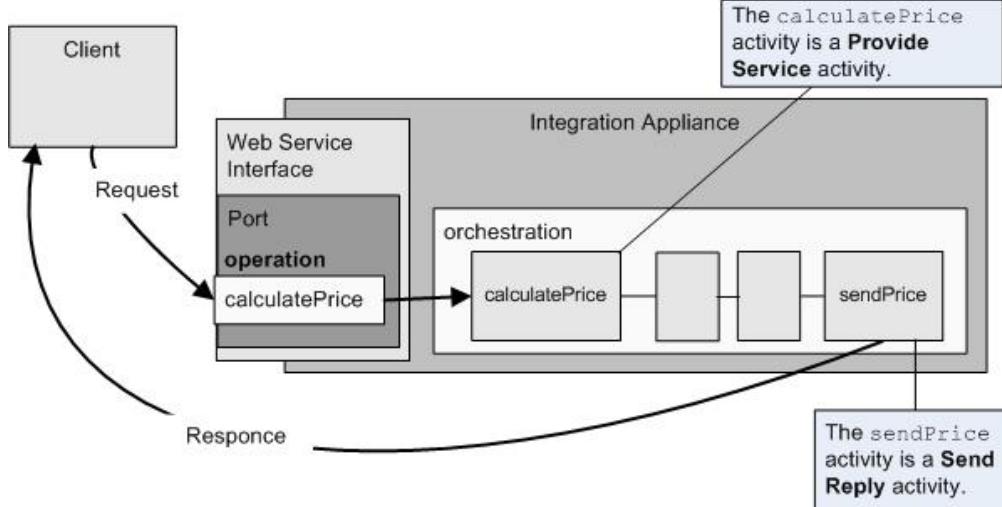
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## Web Services Send Reply Activity

During run time, the Send Reply activity returns a response for a Provide Service activity.

### About this task

Figure 1. Send Reply activity



As shown in [Figure 1](#), the client runs the calculatePrice Web Service operation (a Provide Service activity) by sending a request. The Integration Appliance receives the request and starts processing the activities in the orchestration. When the sendPrice activity (a Send Reply activity) is started, it returns a response to the client.

By default, compression is enabled for the Send Reply activity. For more information, see [Compression with the Web Services Send Reply Activity](#).

The steps for adding and configuring a Send Reply activity to an orchestration are described in the following procedures.

- [Adding an activity](#)  
Add a Web Services **Send Reply** activity in the orchestration.
- [Configuring the activity](#)  
Configure the **Send Reply** service activity.
- [Mapping the inputs of the activity](#)  
Map the inputs of the **Send Reply** service activity.

**Parent topic:** [Web Services Activities](#)

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## Adding an activity

Add a Web Services **Send Reply** activity in the orchestration.

### Procedure

1. [Create](#) or open an orchestration. A graphical representation of the orchestration is displayed.
2. Select the Activities tab and expand the Web Services folder.
3. Drag the Send Reply activity onto the orchestration. The Send Reply activity is used in conjunction with Provide Service activity to send a reply back to the client that started it. Place the Send Reply activity after the Provide Service activity.
4. Select the activity. The Checklist is displayed.

**Parent topic:** [Web Services Send Reply Activity](#)

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## Configuring the activity

---

Configure the **Send Reply** service activity.

### Procedure

1. Select the Configure task from the Checklist. The Configure pane opens.
2. Select a Provide Service to which this Send Reply activity is returning the reply.
3. The Use Compression/Decompression check box specifies if compression is turned on or off at the activity level. By default, the Use Compression/Decompression check box is selected. Clear the Use Compression/Decompression check box to disable compression/decompression for this activity. For more information, see [Compression with the Web Services Send Reply Activity](#).
4. The Message Transmission Optimization Mechanism (MTOM) when checked specifies using MTOM to efficiently send SOAP messages containing binary data.

**Parent topic:** [Web Services Send Reply Activity](#)

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## Mapping the inputs of the activity

---

Map the inputs of the **Send Reply** service activity.

### About this task

The return parameter for the operation selected in the Requires a Reply Schema field of the [Configure](#) task of the associated Provide Service activity, is shown beneath the body input parameter listed in the To Activity pane of the Map Inputs task.

To view the optional input parameters called header and httpheaders in the To Activity pane of the Map Inputs pane, select Map > Show Optional Parameters from the toolbar menu or right-click in the To Activity pane and select the Show Optional Parameters option. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click a node in the Map Inputs pane to make this option active.

If a Soap Header XML Schema was selected in the Requires a Reply SOAP Header field of the [Configure](#) task of the associated Provide Service activity, this schema is shown beneath the header input parameter listed in the To Activity pane of the Map Inputs task.

The following table defines the nodes of the optional httpheaders input parameter.

Nodes of the httpheaders Input Parameter	Description
httpheaders/uri	Specifies the resource path, for example: /myPath.
httpheaders/method	Specifies the type of HTTP request.
httpheaders/otherHeaders/headerItem	Specifies an element that contains a set of HTTP header parameters as name/value pairs. Multiple HTTP header parameters can be specified in the HTTP request, and is a recurring node.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP header parameter.
httpheaders/otherHeaders/headerItem/value	Specifies the value of the HTTP header parameter.

**Parent topic:** [Web Services Send Reply Activity](#)

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## Web Services Send Reply with Fault Activity

During run time, the Send Reply with Fault activity returns a fault to the calling orchestration. This activity provides SOAP functionality as a reply configuration option.

### About this task

The **WS Provide** activity must have previously been added as the starter activity to the active orchestration, since a Send Reply with Fault activity depends on a **WS Provide** activity.

The steps for creating and configuring a Send Reply with Fault activity to an orchestration are described in the following procedures.

- [Creating the Required Fault Names](#)  
Create the required fault names using the following procedure.
- [Configuring the Activity](#)  
Configure the **Send Reply** activity with the fault names.
- [Map the Inputs of the Activity](#)  
Map the inputs for the **Send Reply** activity with the fault names.

**Parent topic:** [Web Services Activities](#)

[Feedback](#) | [Notices](#)

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## Creating the Required Fault Names

Create the required fault names using the following procedure.

### Procedure

1. In an active orchestration, click the WS Provide activity.
2. In the Checklist, click Configure.
3. In the Configure options, select Requires Reply.
4. Click Add Fault. The Add Fault dialog box is displayed.
5. Browse and select a valid schema. Repeat the preceding steps to create as many faults as are required.

**Parent topic:** [Web Services Send Reply with Fault Activity](#)

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## Configuring the Activity

---

Configure the **Send Reply** activity with the fault names.

### Procedure

---

1. Open the Activities tab.
2. Expand the Web Services folder contents and drag Send Reply with Fault into the orchestration, following the existing **Web Services Provide Service** activity.
3. In the Checklist, click Configure.

The Reply To text area is displayed and lists the name of the preceding **Web Services Provide Service** activity.

4. In the With Fault section, select a fault name from the Fault Name list.
5. In the Options section, select Use Compression/Decompression to activate this feature.
6. Select Use Soap Message Transmission Optimization Mechanism (MTOM) to activate this feature.
7. In the Threshold field, enter the preferred value in a range of 1 to 9,999,999.

**Parent topic:** [Web Services Send Reply with Fault Activity](#)

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## Map the Inputs of the Activity

---

Map the inputs for the **Send Reply** activity with the fault names.

### Procedure

---

1. In the Checklist, click Map Inputs.
2. The To Activity column lists the schema associated with the previously selected fault name.
3. In the From Orchestration column, select the variable that would be used to provide input values.
4. If no variables are listed, click Select Inputs, above the From Orchestration list.

The Select Inputs dialog box is displayed and lists available variables.

Tip: If needed, you can create a custom mapping variable in Source or Destination column by following the steps in [Creating Variables](#).

- 5.
6. Choose a variable, then click OK.

7. In the To Activity field, right-click faultcode and choose Define Default value. When the Define Default Value dialog box is displayed, select one of the predefined values.
8. To view any optional parameters, right-click either node and choose Show Optional Parameters. These are displayed in the To Activity column.
9. Map the variables from the Orchestration column to the parameters in the Activity column. For more information, see [Mapping Techniques](#).

**Parent topic:** [Web Services Send Reply with Fault Activity](#)

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## Compression with the Web Services Send Reply Activity

---

During run time, the Web Services Send Reply activity sends an HTTP response complaint with the HTTP/HTTPS 1.0 protocol to the client. The Send Reply activity supports compression with the gzip format only.

Note: The Send Reply activity does not support the deflate format or the common UNIX file compression format called compress. The compression run time behavior of the Send Reply activity is dependent on the following conditions:

- At the message level, the value of the Accept-Encoding header in the original HTTP request received by the Web Services Provide Service activity is passed to the Send Reply activity to determine if the body of the HTTP response is compressed or not compressed as shown in [Figure 1](#).
- The setting of the Use Compression/Decompression check box at the activity level.

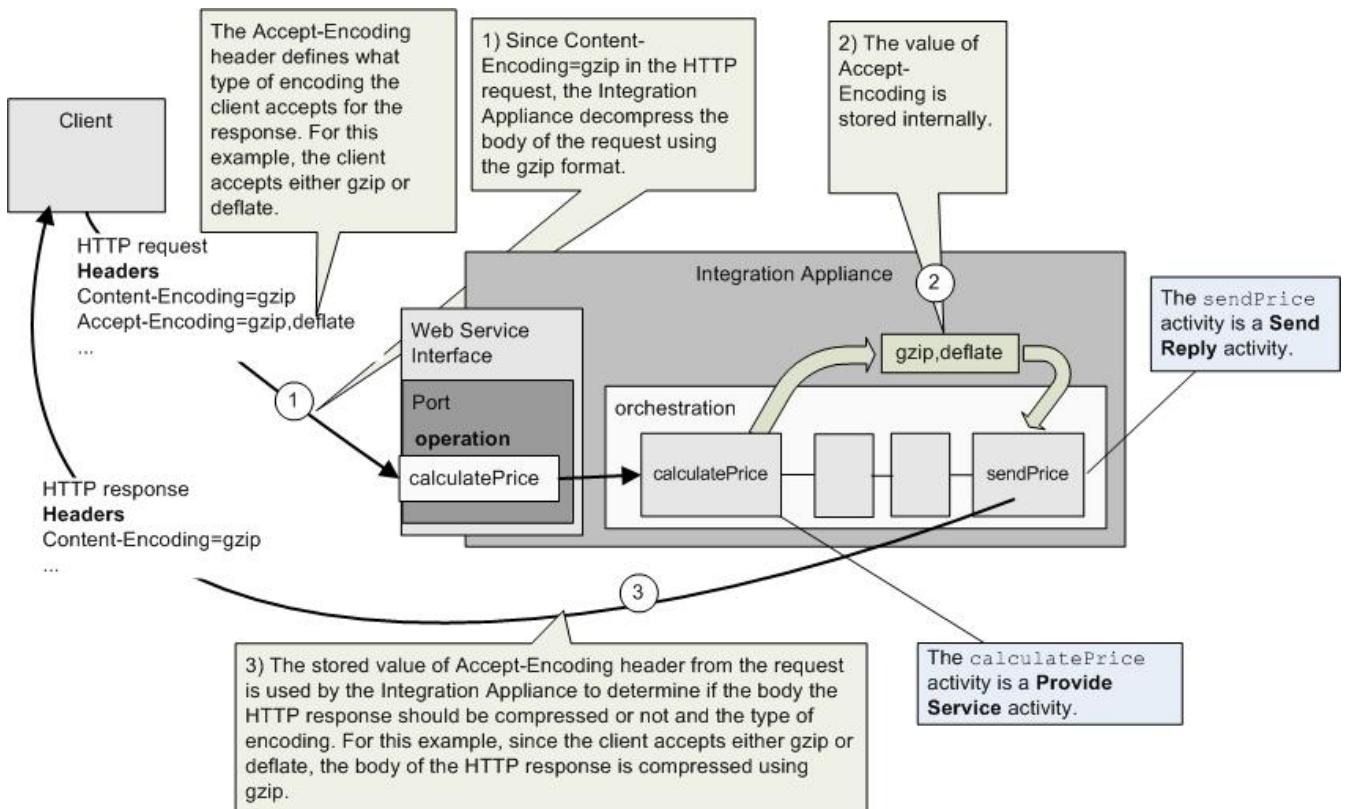
These conditions affect the compression run time behavior of the Send Reply activity are described in the following sections and in the table provided in the [Run time Compression Behavior](#) section.

### Accept-Encoding Value at the Message Level

---

During run time, a Web Services Provide Service activity receives an HTTP request from a client. In the same orchestration, a Send Reply activity sends a response back to the original client. The value of the Accept-Encoding header in the original request received by the Provide Service activity is stored internally on the Integration Appliance. The stored value is passed to the Send Reply activity and is used to determine if the body of the response is compressed or not and the encoding type, as shown in [Figure 1](#).

Figure 1. The Accept-Encoding header



## Setting Compression/Decompression at the Activity Level

By default, compression is turned on at the activity level for the Send Reply activity. You can turn off compression at the activity level by clearing the Use Compression/Decompression check box. The Use Compression/Decompression check box is available in the Configure task of the activity. The second column labeled HTTP Compression CLI Command in the following table represents the setting of the Use Compression/Decompression check box.

## Run time Compression Behavior

The following table describes the compression run time behavior when the Integration Appliance sends an HTTP response to the client:

Use Compression/ Decompression Check Box (Activity Level)	Accept-Encoding Value of the HTTP Request (Message Level)	Integration Appliance Compression Run Time Behavior
selected	gzip or gzip,deflate	The Integration Appliance sends the body of the response compressed in the gzip format and the Content-Encoding header is set to gzip in the response.
selected	identity	The Integration Appliance sends the body of the response uncompressed and the Content-Encoding header is set to identity in the response.Â
selected	not set, or any other string except gzip or identity	The Integration Appliance sends the body of the response uncompressed and the Content-Encoding header is set to identity in the response.Â
cleared	value is not significant	The Integration Appliance sends the body of the response as is (unchanged) and the Content-Encoding header is as is in the response. (The value of the Content-Encoding header in the request is passed unchanged to the response.)

Note: The Use Compression/Decompression check box will be deprecated in a future release. Use the Content-Encoding and Accept-Encoding HTTP Parameters in the HTTP request to specify how to decompress the body of the HTTP request and compress the body of the HTTP response.

**Parent topic:** [Web Services Activities](#)

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## Troubleshooting and support

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Troubleshooting techniques and self-help information help you identify and solve problems quickly. Here, you can find potential solutions for issues you would have with the Web Services connector.

### Exception thrown when Web Services Provide Service activity is processed

---

**Problem:** An Illegal Argument Exception is thrown during the processing of the Provide Service activity, if the Path name ends with a forward slash /.

**Cause:** This exception is caused because `ContextHandler context = new ContextHandler(); context.setContextPath(listenerDetails.getUri());` when the contextPath is being set. ContextHandler is a class in the jetty-6.1.6 JAR file.

**Solution:** Ensure that you specify the Path name such that the slash / is followed by a path string. For example, /abc or /abc/def.

**Parent topic:** [Web Services Activities](#)

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## Workday Activities

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- [Overview of the Workday connector](#)
- [Creating and editing a Workday endpoint](#)

Workday endpoints contain the connection information that studio and the Integration Appliance use to connect to the Workday application. You can create multiple endpoints that refer to separate instances.

- [Using the Invoke Workday activity](#)

The Invoke Workday activity allows you to browse and execute operations in Workday management services related to human resources, finance, and so on. You can also fetch custom report operations and work with it.

- [Migrating WSDL of a WorkDay Connector Project](#)

This section details the WSDL migration of WorkDay connector projects created with WSDL version that is lower than the current version supported by Cast Iron.

- [Specifying the retry options for Workday activity](#)

Specify the retry options for the **Invoke Workday** activity.

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# Overview of the Workday connector

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The Workday connector enables a connection between Cast Iron and Workday management modules related to human resources, finance, and so on. The Workday connector also supports Custom Reports.

You can perform the following activity using the Workday connector:

- [Invoke Workday](#)

The Workday connector supports Workday application v25.2.

**Parent topic:** [Workday Activities](#)

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## Creating and editing a Workday endpoint

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Workday endpoints contain the connection information that studio and the Integration Appliance use to connect to the Workday application. You can create multiple endpoints that refer to separate instances.

### About this task

---

Use this task to create or edit Workday endpoint.

Note:

Any changes you make to Workday endpoint, including configuration properties, affects all the orchestrations that use that endpoint, as the edits are global, not local.

### Procedure

---

1. Drag an activity from Workday folder in the Activities tab to the Orchestration window. The Summary panel is displayed.
2. Click Pick Endpoint from the Checklist. The Pick Endpoint panel is displayed.
3. Click one of the following buttons:
  - a. Browse - To select an existing endpoint from Project Explorer. The Project Explorer shows all the endpoints in the project available for the activity. When you select an endpoint, the endpoint properties are displayed in the Pick Endpoint panel.
  - b. New - To create a new endpoint. The Create Endpoint window opens.
  - c. Edit - To edit the existing endpoint. The Edit Endpoint window opens.
4. Complete the fields defined in the following table:

Table 1. Connection Details

Field Name	Description
Workday	
Domain Name	Specifies the domain name of your Workday endpoint. You can either specify the domain name of your choice or use the sandbox domain name given as a watermark reference.
Tenant Name	Specifies the tenant name of your Workday endpoint. You can either specify the tenant name of your choice or use the sandbox tenant name given as a watermark reference.
Login	
User Name	Specifies the user name to connect to the Workday application. You can either specify the user name of your choice or use the user name given as a watermark reference.
Password	Specifies the password associated with the user name to connect to the Workday application. You can either specify the password of your choice or use the password given as a watermark reference.

Field Name	Description
Connection Timeout	
Timeout after ..... seconds when establishing a connection to the endpoint	Specifies the amount of time in seconds before a timeout occurs between the activity making a request on an Endpoint and the time it takes the Endpoint to respond. The default is 300 seconds.
Proxy	
Connect via a Proxy Server	Allows you to enable the proxy connection details.
Authentication	<p>Allows you to select the type of authentication that the Integration Appliance uses when connecting to a remote server. From the list, select one of the following authentication modes:</p> <ul style="list-style-type: none"> <li>○ Basic - Sends the user name and password you specify unencrypted to the server. This authentication schema is the least secure.</li> <li>○ Digest - Encrypts the user name and password you specify before sending the user name and password to the server. This authentication option is more secure than Basic authentication.</li> <li>○ NTLM - Requires an instance of NTCredentials to be available for the domain name of the server. This authentication is the most secure authentication option.</li> </ul> <p>When you choose the NTLM authentication option, the Integration Appliance authenticates a connection and not a request; therefore, the Integration Appliance authenticates every time a new connection is made. The connection must remain open during the authentication process. You cannot use NTLM to authenticate with both a proxy and server.</p> <p>Note: Do not prefix the user name with the domain.</p>
Realm	If you select the Basic or Digest authentication option, you can specify a realm. When you do not specify a realm, the activity authenticates to 'any realm'. If you select the NTLM authentication option, you must specify a domain. If you do not specify a domain, the endpoint configuration is not valid and an error occurs.
Host Name	Specifies the host name of the proxy server.
Port	Specifies the port number needed to connect to the proxy server.
User Name	Specifies the user name needed to connect to the proxy server.
Password	Specifies the password needed to connect to the proxy server.

5. When finished, click Test Connection to confirm that you can connect to Workday application.

6. Click OK.

**Parent topic:** [Workday Activities](#)

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## Using the Invoke Workday activity

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The Invoke Workday activity allows you to browse and execute operations in Workday management services related to human resources, finance, and so on. You can also fetch custom report operations and work with it.

### About this task

---

Use this task to browse and execute operations in Workday management services related to human resources, finance and so on.

### Procedure

---

To configure Invoke Workday activity, complete the following steps:

1. In an active orchestration, open the Activities tab and expand the Workday folder contents.
2. Drag the Invoke Workday activity icon onto the orchestration. The Invoke Workday Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make the required changes.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Workday endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a Workday endpoint](#).
8. In the Checklist, click Configure.
9. In the Workday Service pane, complete one of the following:
  - a. Click the Service option and select the required Workday services from the list.
  - b. Click the Custom Report Name field and specify the name of the report.
10. Click Fetch Workday Operations to populate the Workday operations pane with operations from the module selected in the Service option.
11. Optional: Click Workday Help to view the Workday help pages for the operation you have selected. If you click the help button before selecting an operation, you can view the Workday help page which displays information about all the Workday services.
12. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the retry options for Workday activity](#).
13. Select the required Workday operation and click Map Inputs from the Checklist. The XML Schemas generated from the selected operation of the Invoke Workday activity are displayed as nodes under the request input parameter in the To Activity panel. The Version field will be populated automatically with the latest version of Workday supported by the connector.  
The user name and password in the map inputs are populated based on the details provided in the endpoint screen.
14. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time if no value is provided for a mandatory element, the activity throws an exception, which is reported by the Web Management Console. If a value is not provided at run time for an optional input parameter, no exception is thrown during run time.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

## Results

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You have configured the Invoke Workday activity.

**Parent topic:** [Workday Activities](#)

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## Migrating WSDL of a WorkDay Connector Project

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This section details the WSDL migration of WorkDay connector projects created with WSDL version that is lower than the current version supported by Cast Iron.

### About this task

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Use this task to migrate your projects' WSDL version to the current version supported by Cast Iron.

### Procedure

---

To migrate the WSDL, complete the following steps:

1. Open the project to be migrated in the latest Cast Iron Studio.
2. Select the orchestration.
3. Select the Workday activity. The Invoke Workday Checklist is displayed.
4. In the Checklist, click Configure.
5. Click Fetch Workday Operations to populate the Workday operations pane with the latest operations supported by Workday Connector.

A Confirmation window is displayed with Updating the WSDL Affects the Listed Dependent Project Entities.

Note: If the project created earlier has used a WSDL version that is lower than the current version supported by Cast Iron, then Fetch Workday Operations button will be enabled otherwise, it will be disabled.

6. Click Update, if you want to update the project WSDL. The dependent entities have been updated successfully.
7. Click Close to close the migration wizard.
8. Click the Save button to save the changes made to the project.

## Results

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You have migrated the WSDL of a WorkDay connector project to the latest WSDL version supported by Cast Iron.

**Parent topic:** [Workday Activities](#)

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## Specifying the retry options for Workday activity

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Specify the retry options for the **Invoke Workday** activity.

### Procedure

---

1. Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
2. Configure the retry options for connecting to the Workday application. The following table describes the retry options for connecting to the Workday application:

Field	Description
Retry	Â
1) Wait --- second(s) between each retry.	Specifies the amount of time (in seconds) that the Integration Appliance waits before trying to establish a connection to the Workday application.
2) Try to connect --- times before failing.	Specifies the retry count - the maximum number of times the Integration Appliance attempts to establish a connection to the Workday application before issuing an error and stopping the processing of the current orchestration job.  If you deploy an orchestration that contains a Invoke Workday activity and the Integration Appliance cannot connect to the specified the Workday service, the Integration Appliance logs the connections errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system and orchestration logs and the stops processing the current orchestration job.  For example, the retry count is set to 5. The first, second, third, fourth, and fifth, connection errors are shown in the system log as Warnings. The Integration Appliance logs the sixth connection error as an Error and stops processing the current orchestration job.

3) Time out after ___ seconds when the Endpoint does not respond to a request.	<p>Specifies the amount of time in seconds before a timeout occurs between the activity making a request on an Endpoint and the time it takes the Endpoint to respond. For the Invoke Workday, the activity timeout is the amount of time that the Integration Appliance waits for a response from the Workday application after attempting to start the Workday service, before the Integration Appliance issues a timeout error. An activity timeout is different from a connection timeout because an activity timeout occurs after the connection to the Endpoint has been established. A connection timeout specifies the amount of time in seconds before a timeout occurs between the Integration Appliance attempting to establish a connection to the Endpoint and the time it takes for the Endpoint to respond to the connection request. Set the connection timeout in Workday Endpoint tab. For more information about connection timeouts, see <a href="#">Creating and editing a Workday endpoint</a>.</p>
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**Parent topic:** [Workday Activities](#)

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## Zuora Activities

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- [Overview of the Zuora connector](#)
- [Creating and editing a Zuora endpoint](#)

Zuora endpoints contain the connection information that studio and the Integration Appliance use to connect to the Zuora application. You can create multiple endpoints that refer to separate instances.

- [Using the Zuora Create Objects activity](#)

Use the Zuora Create Objects activity to create objects such as Account, Amendment, Contact, InvoiceAdjustment, InvoiceItemAdjustment, InvoicePayment, Payment, PaymentMethod, Product, ProductRatePlan, ProductRatePlanCharge, ProductRatePlanChargeTier, RatePlan, RatePlanCharge, RatePlanChargeTier, Refund, and Usage in the Zuora application.

- [Using the Zuora Update Objects activity](#)

Use the Zuora Update Objects activity to update objects such as Account, Amendment, Contact, Invoice, InvoiceAdjustment, InvoiceItemAdjustment, Payment, PaymentMethod, Product, ProductRatePlan, ProductRatePlanCharge, ProductRatePlanChargeTier, RatePlanCharge, and Subscription in the Zuora application.

- [Using the Zuora Delete Objects activity](#)

Use the Zuora Delete Objects activity to delete objects such as Product, Account, or Contact from the Zuora application.

- [Using the Zuora Query Objects activity](#)

Use the Zuora Query Objects activity to query for objects such as Product, Account, or RatePlan from the Zuora application. The query string that you specify for this operation must adhere to the Zuora Object Query Language standard.

- [Using the Zuora Amend Subscription activity](#)

Use the Zuora Amend Subscription activity to amend or change objects such as Subscription, in the Zuora application.

- [Using the Zuora Create Subscription activity](#)

Use the Zuora Create Subscription activity to create a subscription by specifying the basic information about the subscription such as the Account, PaymentMethod, and RatePlanData in the Zuora application.

- [Using the Zuora Generate Invoice activity](#)

Use the Zuora Generate Invoice activity to generate an invoice for a customer by specifying the AccountId, InvoiceDate, TargetDate and so on, in the Zuora application.

- [Specifying the Retry options for Zuora activities](#)

Specifying the Retry parameters is one of the tasks to configure Zuora activity.

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## Overview of the Zuora connector

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The Zuora connector enables a two-way communication between Cast Iron and the Zuora application. You can create and modify objects within the Z-Billing and Z-Payment applications in Zuora, using the Zuora connector.

You can perform the following outbound activities using the Zuora connector:

- [Create Objects](#)
- [Update Objects](#)
- [Delete Objects](#)
- [Query Objects](#)
- [Amend Subscription](#)
- [Create Subscription](#)
- [Generate Invoice](#)

The Zuora connector supports version 41.0 of the Zuora application. For more information, see <http://knowledgecenter.zuora.com/>.

**Parent topic:** [Zuora Activities](#)

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## Creating and editing a Zuora endpoint

---

Zuora endpoints contain the connection information that studio and the Integration Appliance use to connect to the Zuora application. You can create multiple endpoints that refer to separate instances.

### About this task

---

Use this task to create or edit Zuora endpoint.

Note:

Any changes you make to Zuora endpoint, including configuration properties, affects all the orchestrations that use that endpoint, as the edits are global, not local.

### Procedure

---

1. Drag an activity from Zuora folder in the Activities tab to the Orchestration window. The Summary panel is displayed.
2. Click Pick Endpoint from the Checklist. The Pick Endpoint panel is displayed.
3. Click one of the following buttons:
  - a. Browse - To select an existing endpoint from Project Explorer. The Project Explorer shows all the endpoints in the project available for the activity. When you select an endpoint, the endpoint properties are displayed in the Pick Endpoint panel.
  - b. New - To create a new endpoint. The Create Endpoint window opens.
  - c. Edit - To edit the existing endpoint. The Edit Endpoint window opens.
4. Complete the fields defined in the following table:

Table 1. Connection Details

Field Name	Description
Provide Connection Information	
URL	Specifies the URL of the Zuora application. By default, the value of the production environment in Zuora <a href="https://www.zuora.com/apps/services/a/41.0">https://www.zuora.com/apps/services/a/41.0</a> is displayed.

Field Name	Description
User Name	Specifies the user name to connect to the Zuora application.
Proxy Connection Details	
Password	Specifies the password associated with the user name to connect to the Zuora application.
Proxy Host	Specifies the host name of the proxy server.
Proxy Port	Specifies the port number needed to connect to the proxy server.
Proxy User Name	Specifies the user name needed to connect to the proxy server.
Proxy Password	Specifies the password needed to connect to the proxy server.

5. When finished, click Test Connection to confirm that you can connect to Zuora application.
6. Click OK.

**Parent topic:** [Zuora Activities](#)

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## Using the Zuora Create Objects activity

Use the Zuora Create Objects activity to create objects such as Account, Amendment, Contact, InvoiceAdjustment, InvoiceItemAdjustment, InvoicePayment, Payment, PaymentMethod, Product, ProductRatePlan, ProductRatePlanCharge, ProductRatePlanChargeTier, RatePlan, RatePlanCharge, RatePlanChargeTier, Refund, and Usage in the Zuora application.

### About this task

Use this task to create objects in the Zuora application. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Zuora Create Objects activity, complete the following steps:

### Procedure

1. In an active orchestration, open the Activities tab and expand the Zuora folder contents.
2. Drag the Create Objects activity icon onto the orchestration. The Zuora Create Objects Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make required changes if necessary.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Zuora endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click Test Connection to test that you have connected successfully to the Zuora application. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a Zuora endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse Zuora window is displayed.
11. In Browse Zuora, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for Zuora activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Create Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time, if no value is provided for a mandatory element, the activity will be completed and the result of createResponse will be populated with an error message.

By reviewing the response of the activity, you can know if the request had failed or was successful.

15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.

16. Create a map between the output parameters and orchestration variables.

## Results

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You have configured the Zuora Create Objects activity.

**Parent topic:** [Zuora Activities](#)

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## Using the Zuora Update Objects activity

---

Use the Zuora Update Objects activity to update objects such as Account, Amendment, Contact, Invoice, InvoiceAdjustment, InvoiceItemAdjustment, Payment, PaymentMethod, Product, ProductRatePlan, ProductRatePlanCharge, ProductRatePlanChargeTier, RatePlanCharge, and Subscription in the Zuora application.

### About this task

---

Use this task to update objects in the Zuora application. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Zuora Update Objects activity, complete the following steps:

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Zuora folder contents.
2. Drag the Update Objects activity icon onto the orchestration. The Zuora Update Objects Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make required changes if necessary.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Zuora endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click Test Connection to test that you have connected successfully to the Zuora application. Click OK to save and use the endpoint for this configuration.

Note: For more information, see [Creating and editing a Zuora endpoint](#).

8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.

10. Click Browse to select the object type. The Browse Zuora window is displayed.

11. In Browse Zuora, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK.

12. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for Zuora activities](#).

13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Update Objects activity are displayed as nodes under the request input parameter in the To Activity panel.

14. Create a map between the orchestration variables and the input parameter of the activity.

Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time, if no value is provided for a mandatory element, the activity will be completed and the result of updateResponse will be populated with an error message. By reviewing the response of the activity, you can know if the request had failed or was successful.

15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Zuora Update Objects activity.

**Parent topic:** [Zuora Activities](#)

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## Using the Zuora Delete Objects activity

---

Use the Zuora Delete Objects activity to delete objects such as Product, Account, or Contact from the Zuora application.

### About this task

---

Use this task to delete objects from the Zuora application. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Zuora Delete Objects activity, complete the following steps:

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Zuora folder contents.
2. Drag the Delete Objects activity icon onto the orchestration. The Zuora Delete Objects Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make required changes if necessary.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Zuora endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click Test Connection to test that you have connected successfully to the Zuora application. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a Zuora endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Delete Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time, if no value is provided for a mandatory element, the activity will be completed and the result of deleteResponse will be populated with an error message.  
By reviewing the response of the activity, you can know if the request had failed or was successful.
11. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
12. Create a map between the output parameters and orchestration variables.

## Results

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You have configured the Zuora Delete Objects activity.

**Parent topic:** [Zuora Activities](#)

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## Using the Zuora Query Objects activity

---

Use the Zuora Query Objects activity to query for objects such as Product, Account, or RatePlan from the Zuora application. The query string that you specify for this operation must adhere to the Zuora Object Query Language standard.

### About this task

---

Use this task to query objects from the Zuora application. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Zuora Query Objects activity, complete the following steps:

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Zuora folder contents.
2. Drag the Query Objects activity icon onto the orchestration. The Zuora Query Objects Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make required changes if necessary.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Zuora endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click Test Connection to test that you have connected successfully to the Zuora application. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a Zuora endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes that you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML schemas generated from the selected object of the Query Objects activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time, if no value is provided for a mandatory element, the activity is completed and the result of queryResponse is populated with an error message. By reviewing the response of the activity, you can know if the request had failed or was successful.
11. Select the Map Outputs in the Checklist. The XML schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
12. Create a map between the output parameters and orchestration variables.  
Note: The output of the Query Objects activity is queryResponse, which has a generic structure. If the output of the Query Objects activity must be used in a later activity, direct mapping cannot be done. The data must be extracted from the queryResponse with the help of the Apply XSLT activity.

Sample XSLT that can be used to extract specific data:

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:ns1="http://api.zuora.com/" xmlns:ns2="http://object.api.zuora.com/">
  <xsl:template match="/ns1:queryResponse/ns1:result">
    <xsl:element name="Products">
      <xsl:apply-templates select="ns1:records" />
    </xsl:element>
  </xsl:template>
  <xsl:template match="ns1:records">
    <xsl:element name="Product">
      <xsl:element name="Id">
        <xsl:value-of select="ns2:Id"/>
      </xsl:element>
      <xsl:element name="Name">
        <xsl:value-of select="ns2:Name"/>
      </xsl:element>
      <xsl:element name="SKU">
```

```

<xsl:value-of select="ns2:SKU"/>
</xsl:element>
<xsl:element name="EffectiveStartDate">
<xsl:value-of select="ns2:EffectiveStartDate"/>
</xsl:element>
<xsl:element name="EffectiveEndDate">
<xsl:value-of select="ns2:EffectiveEndDate"/>
</xsl:element>
<xsl:element name="Description">
<xsl:value-of select="ns2:Description"/>
</xsl:element>
</xsl:template>
</xsl:stylesheet>

```

## Results

---

You have configured the Zuora Query Objects activity.

**Parent topic:** [Zuora Activities](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Zuora\\_QueryObjects\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Zuora_QueryObjects_Activity.html)

## Using the Zuora Amend Subscription activity

---

Use the Zuora Amend Subscription activity to amend or change objects such as Subscription, in the Zuora application.

### About this task

---

Use this task to amend or change objects from the Zuora application. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Zuora Amend Subscription activity, complete the following steps:

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Zuora folder contents.
2. Drag the Amend Subscription activity icon onto the orchestration. The Zuora Amend Subscription Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make required changes if necessary.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Zuora endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click Test Connection to test that you have connected successfully to the Zuora application. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a Zuora endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Amend Subscription activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time, if no value is provided for a mandatory element, the activity will be completed and the result of amendResponse will be populated with an error message. By reviewing the response of the activity, you can know if the request had failed or was successful.
11. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
12. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Zuora Amend Subscription activity.

**Parent topic:** [Zuora Activities](#)

---

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## Using the Zuora Create Subscription activity

---

Use the Zuora Create Subscription activity to create a subscription by specifying the basic information about the subscription such as the Account, PaymentMethod, and RatePlanData in the Zuora application.

### About this task

---

Use this task to create a subscription in the Zuora application. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Zuora Create Subscription activity, complete the following steps:

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Zuora folder contents.
2. Drag the Create Subscription activity icon onto the orchestration. The Zuora Create Subscription Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make required changes if necessary.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Zuora endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click Test Connection to test that you have connected successfully to the Zuora application. Click OK to save and use the endpoint for this configuration.  
Note: For more information, see [Creating and editing a Zuora endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Create Subscription activity are displayed as nodes under the request input parameter in the To Activity panel.
10. Create a map between the orchestration variables and the input parameter of the activity.  
Note: Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time, if no value is provided for a mandatory element, the activity will be completed and the result of subscribeResponse will be populated with an error message. By reviewing the response of the activity, you can know if the request had failed or was successful.
11. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
12. Create a map between the output parameters and orchestration variables.

## Results

---

You have configured the Zuora Create Subscription activity.

**Parent topic:** [Zuora Activities](#)

---

[Feedback](#) | [Notices](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Zuora\\_CreateSubscription\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Zuora_CreateSubscription_Activity.html)

## Using the Zuora Generate Invoice activity

---

Use the Zuora Generate Invoice activity to generate an invoice for a customer by specifying the AccountId, InvoiceDate, TargetDate and so on, in the Zuora application.

### About this task

---

Use this task to generate an invoice in the Zuora application. The call to this activity is a synchronous call where the input data is sent to the activity for processing and the response is sent back to the orchestration.

To configure the Zuora Generate Invoice activity, complete the following steps:

### Procedure

---

1. In an active orchestration, open the Activities tab and expand the Zuora folder contents.
2. Drag the Generate Invoice activity icon onto the orchestration. The Zuora Generate Invoice Checklist is displayed.
3. In the Checklist, click Summary.
4. Review the contents of the Activity Name field, and make required changes if necessary.
5. In the Checklist, click Pick Endpoint.
6. Click Browse and use the Project Explorer dialog box to select the relevant Zuora endpoint.
7. Optional: You can create the endpoint by clicking New and specifying the required connection details. Click Test Connection to test that you have connected successfully to the Zuora application. Click OK to save and use the endpoint for this configuration.  
*Note:* For more information, see [Creating and editing a Zuora endpoint](#).
8. To make required changes to the selected endpoint configuration, click Edit to access the options in a separate window. Any changes you make globally affects all uses of the endpoint in active orchestrations.
9. In the Checklist, click Configure.
10. Click Browse to select the object type. The Browse Zuora window is displayed.
11. In Browse Zuora, you can either filter the object type by specifying the object type in the Search for an object type field, or select the object type from the object type list. Click OK.
12. In the Checklist, click Retry. Review the default settings and make the required changes. For more information, see [Specifying the Retry options for Zuora activities](#).
13. Select the Map Inputs in the Checklist. The XML Schemas generated from the selected object of the Generate Invoice activity are displayed as nodes under the request input parameter in the To Activity panel.
14. Create a map between the orchestration variables and the input parameter of the activity.  
*Note:* Values must be provided at run time for any mandatory elements of the input structure. A value can be provided by specifying a default value for element or by linking the element with an input node. During run time, if no value is provided for a mandatory element, the activity will be completed and the result of generateResponse will be populated with an error message. By reviewing the response of the activity, you can know if the request had failed or was successful.
15. Select the Map Outputs in the Checklist. The XML Schema generated to hold the response of the activity is displayed as nodes under the response output parameter in the From Activity panel.
16. Create a map between the output parameters and orchestration variables.

### Results

---

You have configured the Zuora Generate Invoice activity.

**Parent topic:** [Zuora Activities](#)

---

#### [Feedback | Notices](#)

# Specifying the Retry options for Zuora activities

---

Specifying the Retry parameters is one of the tasks to configure Zuora activity.

## About this task

---

Use this task to configure the retry options for the Zuora activities. The Zuora connector obtains a new session for each activity. If the connector fails to obtain a session in the first attempt due to network issues, retry occurs. The connector does not count the initial attempt to reacquiring the session as a retry attempt. The connector assumes the typical connector retry behavior after the initial attempt to reacquire a session fails.

## Procedure

---

1. Select the Retry task from the Checklist. The retry pane is displayed.
2. Configure the retry and timeout options for connecting to Zuora application, as described in the following table:

Table 1. Retry options

Retry Fields	Description
Wait __ seconds between each retry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to Zuora application.
Try to connect __ times before failing.	Specifies the retry count – the maximum number of times the Integration Appliance attempts to establish a connection to Zuora application before issuing an error and stopping the processing of the current orchestration job. Note: If you deploy an orchestration that contains Zuora activity and the Integration Appliance cannot connect to the specified Zuora application, the Integration Appliance logs the connections errors as Warnings in the system and orchestration logs until the retry count value is reached. When the retry count is reached, the Integration Appliance logs an Error in the system and orchestration logs and stops processing the current orchestration job. For example, you set the retry count to 3, the first, second, and third connection errors appear in the system log as warnings. The Integration Appliance logs the fourth connection error as an error and stops processing the current orchestration job.
Activity Timeout	
Timeout after ____ seconds when the endpoint does not respond to a request.	Specifies the number of seconds the Integration Appliance waits before timing out, when the endpoint does not respond to a request. The default is 300 seconds.

**Parent topic:** [Zuora Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Zuora\\_Specifying\\_Retry\\_Parameters\\_for\\_Zuora\\_Activities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Zuora_Specifying_Retry_Parameters_for_Zuora_Activities.html)

## Using Secure Connectors

---

A Secure Connector facilitates the secure transfer of data between the IBM® WebSphere® Cast Iron® appliance and an endpoint that is located behind a firewall. You can perform the run time verification of the orchestration against an endpoint behind a firewall

from Studio, using Secure Connectors. This feature of discovering Secure Connectors and verifying the orchestrations in Studio, is applicable only for the Integration Appliance and not for Cast Iron Live.

## Before you begin

---

To verify the orchestration in Studio using Secure Connector, you must complete the following tasks:

- Create a Secure Connector on the appliance.
- Download the configuration file and the installer for the Secure Connector from the appliance, and install it on a machine behind the firewall.
- Start the Secure Connector that was installed in the earlier step, and ensure that the status of the Secure Connector in the Integration Appliance, is displayed as "running".

## Procedure

---

Configure the orchestration with a locally accessible endpoint, which is a replica of the endpoint behind the firewall.

To use Secure Connectors for the verification of the orchestration from Studio for the compatible Cast Iron connectors, such as, the HTTP connector, complete the following:

1. Edit the endpoint details of the activity, to use the other endpoint behind firewall.
2. Go to the Remote Endpoint Configuration section.
3. Select the Endpoint Runs Behind Firewall check box to enable the Secure Connector Name field.
4. Click Browse and specify the details of the Integration Appliance, where the Secure Connectors are registered. The Discover Secure Connectors dialog is displayed.

The appliance users of the Publisher or Admin group can connect to the appliance through Studio, to discover the Secure Connectors.

5. Click Discover. The Integration Appliance displays the list of all the Secure Connectors that are actively running.
6. Select the Secure Connector that corresponds to the environment where the endpoint is running.
7. Save the project and perform the verification of the orchestration.

During the verification of the orchestration in the Studio environment, the connector will execute the activity using the Secure Connector that you configured through the Integration appliance. You can now test the orchestration against an environment situated on a different network other than the Studio environment.

Note:

- The Discover Secure Connectors dialog displays only those Secure Connectors that are currently in the "running" state. So, ensure that the Secure Connector is started in the on-premise environment.
- The communication between Studio and Appliance is through HTTP transport.
- For an old project, you must import the project into the Studio and perform the steps described above.
- The test connection and discovery of the artifacts through a Secure Connector is not currently supported from the Studio environment.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/using\\_secureconnectos.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/using_secureconnectos.html)

## Variables

---

- [About variables](#)  
In orchestrations, variables provide temporary storage locations to hold the input and output data of activities.
- [Creating variables](#)  
Use the topics in this section to decide which method to use to create new variables in an orchestration.

- [Configuring variable properties](#)  
Configure variable properties from the Properties of pane on the Variables tab.
- [Removing Variables](#)  
You can remove a specific variable, or all unused variables from the orchestration, as described in this section.
- [Specifying a default value](#)  
Specify a default value for a variable which is appropriate for its data type.
- [Browse for Schema Element](#)  
Select a root element of a schema or fragment of a schema.
- [Selecting a Substitution Type for Variables](#)  
When an XML Schema defines an XML element based on derived types, you must specify the derived type (or substitution type) expected during run time.

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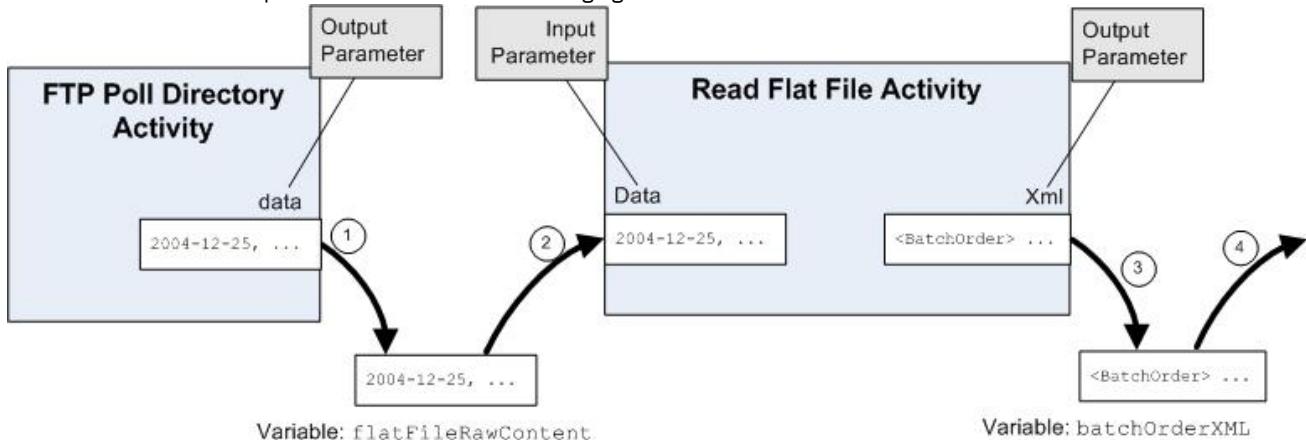
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_variables.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_variables.html)

## About variables

---

In orchestrations, variables provide temporary storage locations to hold the input and output data of activities.

This is shown in the example orchestration of the following figure:



During run time, this orchestration extracts data from and stores data into variables as described in the following steps:

1. The FTP Poll Directory activity polls for a Flat File on an FTP Server and places the contents of the Flat File into the data output parameter. The data output parameter is mapped to the string variable called *flatFileRawContent*.
2. The Flat File data returned from the FTP Poll Directory activity is stored as a string into the *flatFileRawContent* variable.
3. The *flatFileRawContent* variable is mapped to the Data input parameter of the Read Flat File activity. The Flat File data is parsed by the Read Flat File activity and returned from the activity in the XML output parameter.
4. The XML output parameter is mapped to the *batchOrderXML* Flat File Schema variable. The data is available in the orchestration from the *batchOrderXML* Flat File Schema variable. For example, if an activity is added to the orchestration to the right of the Read Flat File activity, it can use this data as input.

Variables must be initialized in an orchestration in order for the orchestration to be considered valid. This includes variables that are initialized in the branches of an If.. Then activity. The variable must be initialized in all branches. For more information see [Validating the orchestration](#).

## Variable scope

---

Variables defined within the Group, Try/Catch, If Then, While Loop, or For Each activities are considered as local variables. When such a variable is used as an input of a Map Inputs Tasks activity or a Map Variables activity that is outside of, and following the Group, Try/Catch, If Then, While Loop, or For Each activity, the variable is considered as uninitialized because it is outside the scope of the activities where it was declared. Therefore, these variables must be initialized with a default value.

For more information about specifying a default value, see the [Specifying a default value](#) section.

## The Variables tab

The Variables tab contains the following panes:

- **Variables:** Displays the variables that are defined and available for use in the Mapping Editor. A predefined variable called *JobInfo* is available in the Variables pane of the Variables tab by default.
- **Schema of <variable>:** Displays the schema for the selected variable.
- **Activities using <variable>:** Displays all activities in the orchestration which use the variable.
- **Properties of <variable>:** Where you define or edit variable properties or specify a default value.

## The JobInfo variable

By default, Studio provides the *JobInfo* variable. The Integration Appliance provides the values for the *JobInfo* nodes during run time. The *JobInfo* variable contains the nodes defined in the following table:

JobInfo Node Name	Data Type	Description
jobId	String	Contains the job ID number assigned to the instance of the orchestration. When the orchestration starts processing the activities contained in the orchestration, a job ID number is assigned to that instance of the orchestration. This job ID number is also visible from the Web Management Console (WMC).
jobStartTime	XML Schema data type xsd:dateTime	Contains the date and time that the instance of the orchestration started processing. Note: The <i>jobStartTime</i> is the date and time that the orchestration starts processing the messages or events and is assigned a job ID number. The <i>jobStartTime</i> is not the date and time that orchestration was deployed on the Integration Appliance and became active â€” ready to start processing messages and events. For example, an orchestration contains a FTP Poll Directory activity (a starter activity) that is deployed on the Integration Appliance. The orchestration becomes active waiting for a file to show on the FTP Server in a particular directory. When the orchestration determines that a file has been placed in a particular directory on the FTP Server, it starts processing the FTP Poll Directory activity. When the orchestration starts processing, the current date and time is stored in the <i>jobStartTime</i> node.
projectName	String	The name of the project that contains the current orchestration.
configurationName	String	The name of the configuration associated with the current instance of the orchestration. Different configurations of projects are created using the Web Management Console (WMC).
orchestrationName	String	The name of the orchestration currently processing.

<b>JobInfo Node Name</b>	<b>Data Type</b>	<b>Description</b>
routerHostName	String	The host name of the Integration Appliance that the current instance of the orchestration is running on.

Note: The *JobInfo* variable or the nodes of the *JobInfo* variable cannot be removed.

**Parent topic:** [Variables](#)

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## Creating variables

---

Use the topics in this section to decide which method to use to create new variables in an orchestration.

- [Create a new variable using the Create New Variable option](#)
- [Create a new variable using the Select Inputs or Select Outputs buttons](#)
- [Create a new variable using the toolbar menu](#)
- [Create a new variable using the Copy menu option](#)
- [Create a new variable using the Copy button](#)
- [Primitive Data Types](#)

**Parent topic:** [Variables](#)

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## Create a new variable using the Create New Variable option

---

### About this task

To create a new variable using the Create New Variable option of the Variables pane:

### Procedure

1. Open an orchestration and select the Variables tab.
2. Right-click the Variables pane and select the Create New Variable option from the list. The "Create New Variables Step 1 of 2" dialog box is displayed.
3. Select a data type or schema to base the new variable:
  - For a variable based on a primitive data type:
    - a. Scroll to the end of the "Create New Variables Step 1 of 2" dialog box.
    - b. Select a primitive data type from the Primitive Types folder.
    - c. Click Next.
  - For a variable based on a schema:
    - a. Optional: [To search for a node by name, click Find](#).
    - b. From the schema, select a node to be the root of the new variable.
    - c. Click Next.

4. Enter a name for the new variable and click Finish. The new variable is added to Variables toolbox, and the schema opens in the Schema of pane on the Variables tab.

Attention: Do not create a variable in the following format: `__variableName__`. Variable names that start with two underscore characters (`_`) and ends with two underscore characters (`_`) are not supported. If an orchestration contains variable names using this format, [the orchestration fails to validate](#).

**Parent topic:** [Creating variables](#)

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## Create a new variable using the Select Inputs or Select Outputs buttons

---

### About this task

To add a new variable using the Select Inputs or Select Outputs buttons in the mapping panes of activities:

### Procedure

---

1. Open an orchestration.
2. Double-click an activity.
3. Select a mapping task in the Checklist.
4. Add a variable to the map:
  - o To add an input variable to the map, click Select Inputs.
  - o To add an output variable to the map, click Select Outputs.
5. Click New. The "Create New Variables Step 1 of 2" dialog box opens.
6. Select a data type or schema to base the new variable:
  - o For a variable based on a primitive data type:
    - a. Scroll to the end of the "Create New Variables Step 1 of 2" dialog box.
    - b. Select a primitive data type from the Primitive Types folder.
    - c. Click Next.
  - o For a variable based on a schema:
    - a. Optional: [To search for a node by name, click Find](#)
    - b. From the schema, select a node to be the root of the new variable.
    - c. Click Next.
7. Enter a name for the new variable and click Finish.

The new variable is added to Variables toolbox, and the schema displays in the Schema of pane on the Variables tab. The new variable is also added to the mapping pane.

Attention: Do not create a variable in the following format: `__variableName__`. Variable names that start with two underscore characters (`_`) and ends with two underscore characters (`_`) are not supported. If an orchestration contains variable names using this format, [the orchestration fails to validate](#).

**Parent topic:** [Creating variables](#)

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# Create a new variable using the toolbar menu

---

## About this task

---

To add a new variable using the Map > Add options available from the toolbar menu:

## Procedure

---

1. Open a mapping pane of an activity.
2. Click a node in the mapping pane.
3. Select an active Map toolbar menu option
  - o Map > Add Input Variables
  - o Map > Add Output VariablesThe "Add Variables" dialog box is displayed.
4. Click New. The "Create New Variables Step 1 of 2" dialog box is displayed.
5. Select a data type or schema to base the new variable:
  - o For a variable based on a primitive data type:
    - a. Scroll to the end of the "Create New Variables Step 1 of 2" dialog box.
    - b. Select a primitive data type from the Primitive Types folder.
    - c. Click Next.
  - o For a variable based on a schema:
    - a. Optional: [To search for a node by name, click Find.](#)
    - b. From the schema, select a node to be the root of the new variable.
    - c. Click Next.
6. Enter a name for the new variable and click Finish. The new variable is added to Variables toolbox, and the schema is displayed in the Schema of pane on the Variables tab. The new variable is also added to the mapping pane.  
Attention: Do not create a variable in the following format: \_\_variableName\_\_. Variable names that start with two underscore characters (\_) and ends with two underscore characters (\_) are not supported. If an orchestration contains variable names using this format, [the orchestration fails to validate](#).

**Parent topic:** [Creating variables](#)

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[Feedback](#) | [Notices](#)

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# Create a new variable using the Copy menu option

---

## About this task

---

To create a new variable using the Copy menu option while viewing the graphical representation of an XML Schema:

## Procedure

---

1. Open an orchestration.
2. Select the Project tab and double-click an XML Schema in the XML Schemas folder to open it. A schema tab opens with a graphical representation of the XML Schema.
3. Select the Variables tab.
4. Select a node in the schema to be the root of the new variable. Right-click the node in the schema tab (displayed on the left) and from the menu select Copy.
5. Select an orchestration tab and then select the Variables tab.
6. Click the Variables pane of the Variables tab and paste fragment of the schema using one of the following options:
  - o Right-click and from the menu select Paste.
  - o From the toolbar menu, select Edit > Paste.
7. Optional: Rename the variable by clicking in the Name field of the "Properties of" pane of the Variables tab.

Attention: Do not create a variable in the following format: \_\_variableName\_\_. Variable names that start with two underscore characters (\_) and ends with two underscore characters (\_) are not supported. If an orchestration contains variable names using this format, [the orchestration fails to validate](#).

**Parent topic:** [Creating variables](#)

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[Feedback](#) | [Notices](#)

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## Create a new variable using the Copy button

---

### About this task

---

To add a new variable using the Copy button in the mapping panes of activities:

### Procedure

---

For more information, see [Copying Parameters](#).

**Parent topic:** [Creating variables](#)

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[Feedback](#) | [Notices](#)

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## Primitive Data Types

---

The following table lists primitive data types that can be used when creating a variable:

Primitive Data Type	Description
base64binary	Base64-encoded arbitrary binary data The value space of base64Binary is the set of finite-length sequences of binary octets. For base64Binary data the entire binary stream is encoded using the Base64 Alphabet in [RFC 2045].
anyType	A concrete ur-Type, which can serve either as a complex type (non-scalar data, means elements), or as a simple type (scalar data) depending on the context.
dateTime	Specific instant of time. ISO 8601 extended format CCYY-MMDDThh:mm:ss
QName/q name	XML qualified names.
int	int is derived from long by setting the value of maxInclusive to be 2147483647 and minInclusive to be -2147483648
string	The string datatype represents character strings in XML
boolean	This data type has two possible values: true or false. It is typically used to track true or false conditions.
decimal	A subset of the real numbers, which can be represented by decimal numerals

**Parent topic:** [Creating variables](#)

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## Configuring variable properties

---

Configure variable properties from the Properties of pane on the Variables tab.

### About this task

---

When using variables within the Group or Try/Catch activities, these variables are regarded as local variables. When these variables are used outside of the scope of the activities where they were declared, they are considered to be uninitialised. If a variable defined within the Group or Try/Catch activities is used as an input of a Map Inputs Tasks activity or a Map Variables activity that is outside of, and following, the Group or Try/Catch activity, the variable is considered as uninitialised.

### Procedure

---

1. Click the Name field and enter a name for the variable.
2. Click the Data Type field and select a Data Type from the list. In addition to the default Data Types, the list lists the names of the root nodes of the Flat File Schemas, XML Schemas, and DTD files that have been defined or uploaded into the project. The following default Data Types are listed in the menu:
  - o DateTime: a date and time stored as an XML Schema xs:dateTime data type
  - o AnyType: any type of data can be stored in this catch-all (XML Schema xs:anyType) data type
  - o String: text characters (primitive)
  - o Integer: integers (primitive)
  - o Base64Binary: base64 binary encoded data stored as an XML Schema xs:base64Binary data type
  - o [Browse for Schema...:](#) use this option to redefine the schema or schema fragment that the variable is based on
3. Optional: Click the Default Value field and [specify a default value](#) for the variable.
4. Click the Shared field to specify to share this variable across orchestration jobs. By default, variables are not shared (False). To share this variable across all the orchestration jobs of this type of orchestration, select the True option from the list. If the Shared field is set to True, the Process Orchestration Jobs Sequentially check box becomes automatically selected.  
Note: Variables based on schema fragments can be created by [dragging a node from the Schema of pane into the Variables pane of the Variables tab](#).  
Note: Shared variables are sometimes used with scheduled orchestrations to maintain state information for each scheduled invocation of the orchestration job.

**Parent topic:** [Variables](#)

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## Removing Variables

---

You can remove a specific variable, or all unused variables from the orchestration, as described in this section.

### About this task

---

Remove variables from the orchestration in one of the following methods:

To remove a specific variable:

1. Select the variable from the Variables pane inside of the Variables tab.
2. Right-click and select Remove Variable from the list

Note: Removing a variable can modify any maps that refer to it.

To remove variables not used in the orchestration:

1. Right-click the Variables pane inside of the Variables tab.
2. Select Remove Unused Variable(s).

**Parent topic:** [Variables](#)

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## Specifying a default value

---

Specify a default value for a variable which is appropriate for its data type.

### About this task

---

The value you supply as a default must match the data type of the variable. You can enter a default value or you can select a default value from a file. Typically you select a default value from a file for variables that are based on schemas. For variables based on an XML Schema, you load an XML file that is valid to the XML Schema.

Specify a default value using one of the following methods:

To enter a default value manually:

1. Click the Default Value field of the "Properties of" pane.
2. Enter a value.

To select a default value from a file:

1. Click [...] in the Default Value field. The Default Value dialog box is displayed.
2. Click Upload. The Open Sample Document dialog box opens.
3. Select a sample file and click Open. The contents of the file show in the Default Value dialog box.
4. Click OK. The OK button is located at the end of the pane.

**Parent topic:** [Variables](#)

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## Browse for Schema Element

---

Select a root element of a schema or fragment of a schema.

### About this task

---

The Browse for Schema Type Element dialog box shows the current nodes of the different schemas available in the project. You can select either a root element of the schema or a fragment of the schema (a child node of the root element). To upload a new schema into the project, see [Uploading Files into a Project](#).

To select the root of a schema or a schema fragment:

## Procedure

---

1. In the Browse for Schema Type Element dialog box select either a root element of the schema or a fragment of the schema (a child node of the root element).
2. Expand the schema to view the nodes that make up the schema. To find a particular node in the schema, enter the beginning characters of the node name.
3. Click OK.

**Parent topic:** [Variables](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Browse\\_for\\_Schema.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Browse_for_Schema.html)

## Selecting a Substitution Type for Variables

---

When an XML Schema defines an XML element based on derived types, you must specify the derived type (or substitution type) expected during run time.

### About this task

---

The XML Schema specification supports the ability to derive complex types by extension. For more general information about type substitution and about using type substitution in mapping panes, see [Selecting a Substitution Type](#).

When an XML Schema defines an XML element based on derived types, you must specify the derived type (or substitution type) expected during run time. In Studio, you must specify the expected substitution type for the XML element of the variable using the Substitute Node With ... menu option as described in the following procedure.

To select a substitution type for a variable:

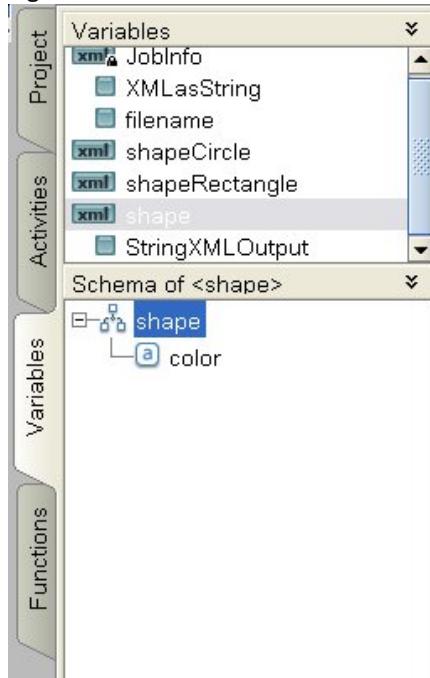
## Procedure

---

1. Upload an XML Schema that contains an XML element-based derived types into the project. For more information, see [Uploading Files into a Project](#).
2. Create a variable that contains an XML element based on derived types. The schema associated with the node displays in the "Schema of" pane of the Variables tab.

For the example XML Schema provided in [Selecting a Substitution Type](#), create a variable based on the `<shape>` element. The schema associated with the `<shape>` element is displayed in the "Schema of" pane of the Variables tab as shown in [Figure 1](#):

Figure 1. The schema associated with the shape element as displayed by the Schema of pane.

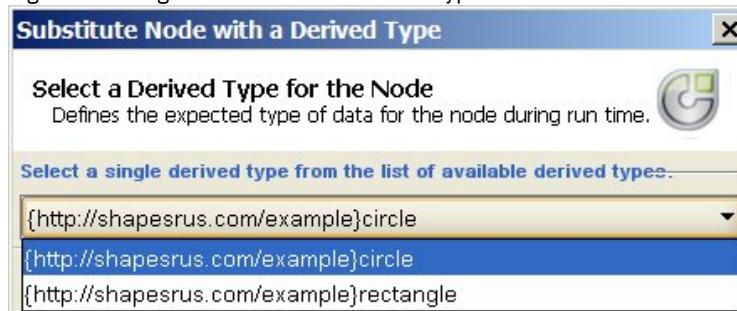


Note that the child elements of the derived types are not listed in the "Schema of" pane. In this example, the child element of circle which is named diameter is not listed, nor are the child elements of rectangle which are named width and length.

3. In the "Schema Of" pane of the Variables tab, select the derived type expected during run time, by right-clicking the node and from the menu selecting the Substitute Node With ... option.

The Substitute Node with a Derived Type dialog box is displayed. In the menu, the available derived types for the node as defined by the XML Schema are listed. For this example, the two derived types are available from the menu as shown in Figure 2:

Figure 2. The figure shows the two derived types for the Node: circle and rectangle.



4. Select one of the derived types. The selected derived type determines the expected type of XML instance document during run time.

In this example, the circle derived type is selected, so the XML data expected for this variable during run time is of type circle.

In addition to the child elements of the base type, the child elements of the derived type are displayed in the "Schema of" pane. In this example, the child element named diameter is displayed with the child element named color (inherited from the base type) in the "Schema of" pane of the Variables tab as shown in Figure 3:

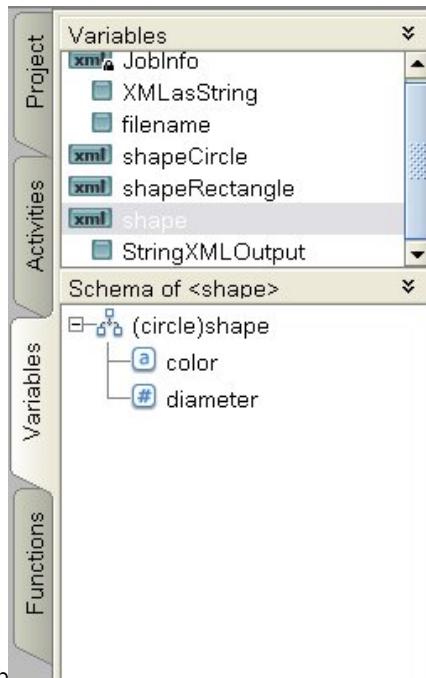


Figure 3. Variables tab

## What to do next

---

When a derived type has been selected for a node of a variable using the Substitute Node With ... option, you can remove the association between the node of a variable and the derived type by right-clicking the node and selecting the Unsubscribe Node option from the menu. An Unsubscribe dialog box opens. Click Yes.

**Parent topic:** [Variables](#)

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## Flat File Schemas

---

- [Flat File Schema Editor Overview](#)

A Flat File Schema is metadata that describes the format and structure of Flat File data processed by the Integration Appliance. When you create a Flat File Schema, a corresponding internal XML Schema-based representation of the metadata is also generated.

- [About delimited data](#)
- [About fixed length or 'positional' data](#)
- [Mixed positional and delimited example](#)
- [Creating a flat file schema](#)
- [Testing flat file schemas](#)
- [Root node properties](#)

When a root node is selected in the Schema Layout tab, the following two sections of properties are available in the pane: Basic Properties and Delimiters.

- [Adding Fields or Field Types](#)
- [Field properties](#)
- [Adding Records or a Record Type](#)
- [Record properties](#)
- [Adding Groups or Group Types](#)
- [Group Properties](#)

When a group is selected in the Schema Layout tab, the Basic Properties of a group are displayed. When a group type is

selected in the Type Library tab, the Basic Properties of the group type are displayed. The Basic Properties of a group or group type are listed in the following table:

- [Group Example](#)
- [Working with Nodes in the Schema Tabs](#)
- [Adding Several Children](#)
- [Valid Node Names](#)
- [The Type Library Tab](#)
- [Specifying Optional Fields and Records](#)
- [Generating a flat file schema from an IDOC](#)

At design time, using the Project > Import > SAP IDOC Schema toolbar menu option, you can interrogate an SAP endpoint for IDOC metadata and from that metadata generate a Flat File Schema.

- [Using the Flat File Wizard](#)

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## Flat File Schema Editor Overview

---

A Flat File Schema is metadata that describes the format and structure of Flat File data processed by the Integration Appliance. When you create a Flat File Schema, a corresponding internal XML Schema-based representation of the metadata is also generated.

During run time, the Integration Appliance uses the Flat File Schema for the following actions:

- Parse incoming Flat File data (valid to the Flat File Schema) and convert it to XML data. This parsing is done in the Read Flat File activity of an orchestration. The converted XML data is valid to the generated internal XML Schema generated from the Flat File Schema. For an example orchestration that reads Flat File data, see the "Developing the BookOrder Project" section of the [Getting Started Guide](#).
- Convert XML data into outgoing Flat File data valid to a Flat File Schema. This conversion is done in the Write Flat File activity of an orchestration.

Use the Flat File Schema Editor to create Flat File Schemas to describe the following types of data:

- [Delimited](#) data - A Flat File Schema can describe data that is defined using delimiters, for example: EDI data or by comma-separated values (CSV). A CSV file containing delimited data is shown in the following figure:

### Delimited Data



For an example Flat File Schema that parses delimited fields and contains repeating records, see "Developing the BookOrder Project" section of the [Getting Started Guide](#).

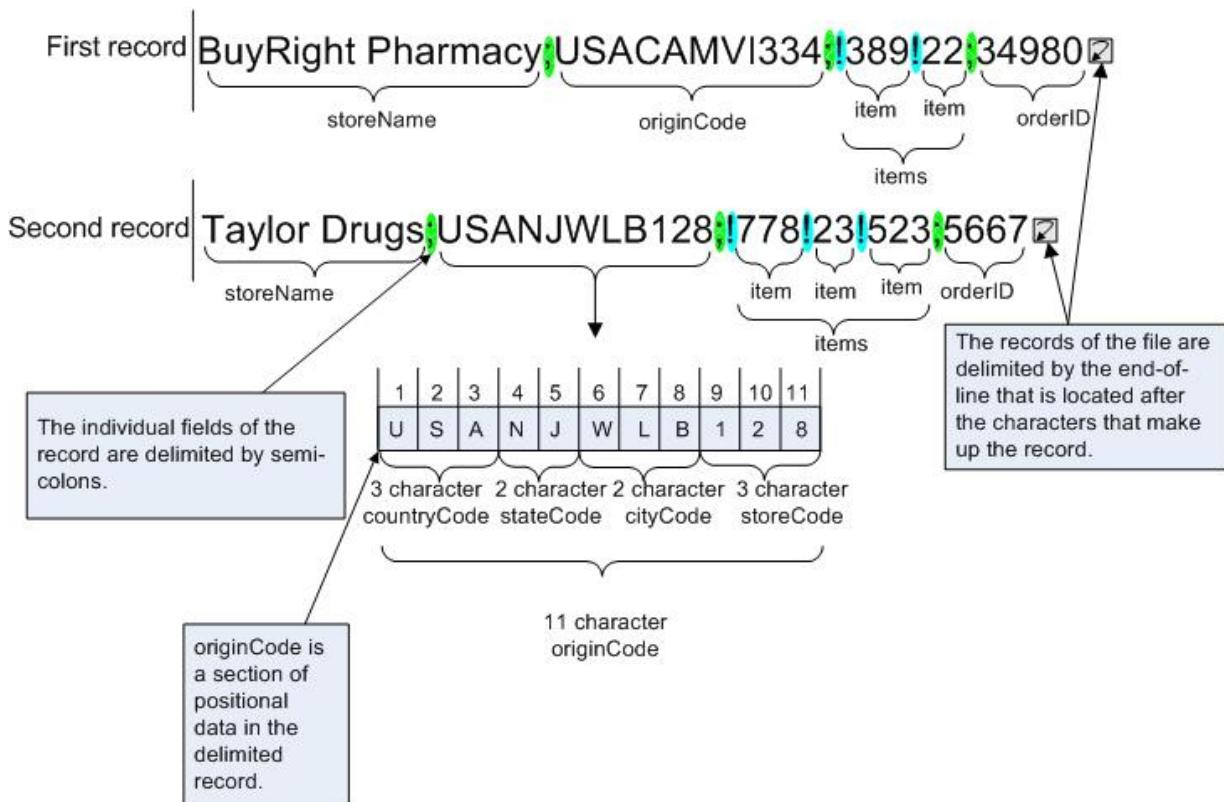
- **Fixed length or 'positional' data:** A Flat File Schema can describe fixed length or positional data. Many mainframe applications use positional data. Fixed-length data is shown in the following figure:

Positional or Fixed Length Data

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
First record	H	A	N	F	O	R	D									S	U	S	A	N									7	7	3	5	7	9	
Second record	T	A	Y	L	O	R										C	A	T	H	E	R	I	N	E					6	7	8	9	1	4	

- **Mixed positional and delimited data** - A Flat File Schema can describe a mix of both delimited and positional data as shown in the following figure:

## Mix of Positional and Delimited Data



**Parent topic:** [Flat File Schemas](#)

[Feedback | Notices](#)

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## About delimited data

Delimited data is a collection of records or fields with variable lengths. Delimiters are used to signal the beginning or end of the record or field as shown in the following figure:

Figure 1. An example of delimited data where individual fields of the record are delimited by commas (LastName, FirstName and CustomerId), and the records of the file are delimited by the end of line.

## Delimited Data



Records can also have identifying codes, known as records IDs. In the data in [Figure 2](#), each record begins with a record ID and ends with a delimiter.

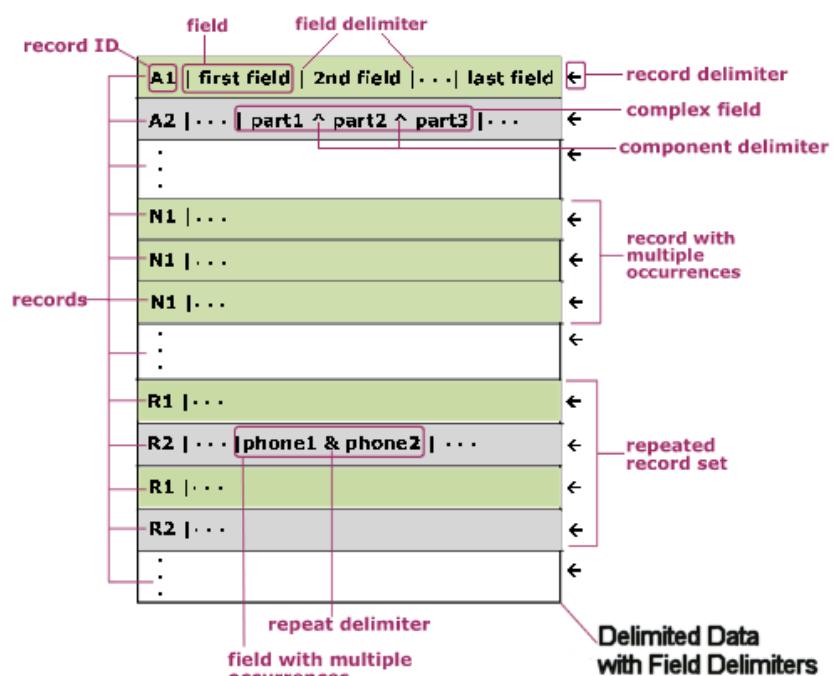


Figure 2. Records with identifying codes

As shown in [Figure 2](#), records can repeat individually; the end of the repetition is marked by the record ID of the next record. Records can also repeat as a set of records; the end of the repetition is marked by the record ID of the next record that is not in the set.

Records contain fields; each field begins with a field delimiter. Fields end with either the delimiter beginning in the next field or with the end of the record.

Fields can be complex, containing components that are delimited with a component delimiter. Fields can also contain multiple data values - they repeat and use a repeat delimiter between values as shown with the phone1 and phone2 fields.

To implement a Flat File Schema for this sample data with record IDs, you would map each characteristic of the data as shown in the following table:

Flat File Characteristic	Flat File Schema Implementation
Delimited format for the highest level of structure in the data	For the <a href="#">root node</a> set the Structure property to Delimited

Flat File Characteristic	Flat File Schema Implementation
Record delimiter	For the root node or a <a href="#">record node</a> set the child delimiter
Record IDs	<ul style="list-style-type: none"> <li>For the root node or a <a href="#">record node</a>, set the record identifier property to the respective ID value</li> <li>For the root node or a <a href="#">record node</a>, set the record identifier offset to 1</li> </ul>
Repeating records	For <a href="#">record nodes</a> , set the maximum occurrence property to unbounded or to a specific value
Repeating sets of records	Create a group node for each set and make the records in the set the content of the group
Field delimiter	Record nodes, set the child delimiter property
Repeating fields	Record nodes, set the repeat delimiter property
Complex fields	Define each as a subrecord that is child to the record containing the field
Components within complex fields	Define as field children in the subrecord
Component delimiter	Record node for the complex field, set the child delimiter property

**Parent topic:** [Flat File Schemas](#)

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## About fixed length or 'positional' data

Fixed length or positional data are simple collections of records where each record has a known length. For example, the lastName field could contain the characters found between the 1 and the 16 character positions, as shown in [Figure 1](#):

Figure 1. Positional or Fixed Length Data example where a limited number of cells or boxes is allocated to each category, in this example: lastName, firstName, and customerID.

Positional or Fixed Length Data																																																																																																						
First record	<table border="1"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td></tr> <tr> <td>H</td><td>A</td><td>N</td><td>F</td><td>O</td><td>R</td><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>S</td><td>U</td><td>S</td><td>A</td><td>N</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>7</td><td>7</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr> <td>T</td><td>A</td><td>Y</td><td>L</td><td>O</td><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>C</td><td>A</td><td>T</td><td>H</td><td>E</td><td>R</td><td>I</td><td>N</td><td>E</td><td></td><td></td><td></td><td></td><td>6</td><td>7</td><td>8</td><td>9</td><td>1</td><td>4</td></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	H	A	N	F	O	R	D								S	U	S	A	N									7	7	3	5	7	9	T	A	Y	L	O	R								C	A	T	H	E	R	I	N	E					6	7	8	9	1	4	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35																																																																				
H	A	N	F	O	R	D								S	U	S	A	N									7	7	3	5	7	9																																																																						
T	A	Y	L	O	R								C	A	T	H	E	R	I	N	E					6	7	8	9	1	4																																																																							
Second record																																																																																																						

As shown in [Figure 1](#), delimiters are not used to separate the characters between the following fields:

- lastName
- firstName
- customerID

For this example, the end-of-line delimiter is used to separate the data in the first and second records. You can define a Flat File Schema for a mix of positional and delimited data.

All data in the record is required because omitting the data would change the position of subsequent fields. If data is not available, spaces or zeros are added to pad out the field lengths as shown for the nickname and age fields in the following figure:

Figure 2. Padding using spaces or zeros

Susan Jane Susie Taylor 091 Catherine Erin	<?xml version="1.0" encoding="UTF-8"?> <NamePerson> <Names> <firstName>Susan      </firstName> <middleName>Jane      </middleName> <nickname>Susie      </nickname> <lastName>Taylor      </lastName> <age>091</age> </Names> <Names> <firstName>Catherine</firstName> <middleName>Erin      </middleName> <nickname/> <lastName>Halden      </lastName> <age>012</age> </Names> </NamePerson>
---	--

In the second line of data in the previous figure, no name is specified in for the nickname field - instead, there are spaces to pad out the missing nickname, so the string: Halden is correctly parsed as a last name. In addition, an extra zero was added to the front of the ages because the age field is three characters but the ages 12 and 91 are only two characters long.

Fields and records can repeat, but the number of repletions must be predefined in Studio and each record must have the same number of fields. For example, if you specified that the number of occurrences of the nickname field was equal to two, each record in the field must specify two nicknames or add spaces to pad for the missing nickname as shown in the following figure:

Figure 3. Padding with spaces

Susan Jane Susie Sue Taylor 091 Catherine Erin	<?xml version="1.0" encoding="UTF-8"?> <NamePerson> <Names> <firstName>Susan      </firstName> <middleName>Jane      </middleName> <nickname>Susie      </nickname> <nickname>Sue       </nickname> <lastName>Taylor      </lastName> <age>091</age> </Names> <Names> <firstName>Catherine</firstName> <middleName>Erin      </middleName> <nickname/> <nickname/> <lastName>Halden      </lastName> <age>012</age> </Names> </NamePerson>
---	--

For an example of parsing positional data, see the originNode of the [Mixed positional and delimited example](#).

**Parent topic:** [Flat File Schemas](#)

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## Mixed positional and delimited example

---

### About this task

---

This example shows how to build a Flat File Schema to parse a mix of positional and delimited data. To create a Flat File Schema, you must first analyze your Flat File data to determine what fields and nodes to add to the Flat File Schema. In this example, you create a Flat File Schema for the following two lines of data:

BuyRight Pharmacy;USACAMVI334;!389!22;34980;

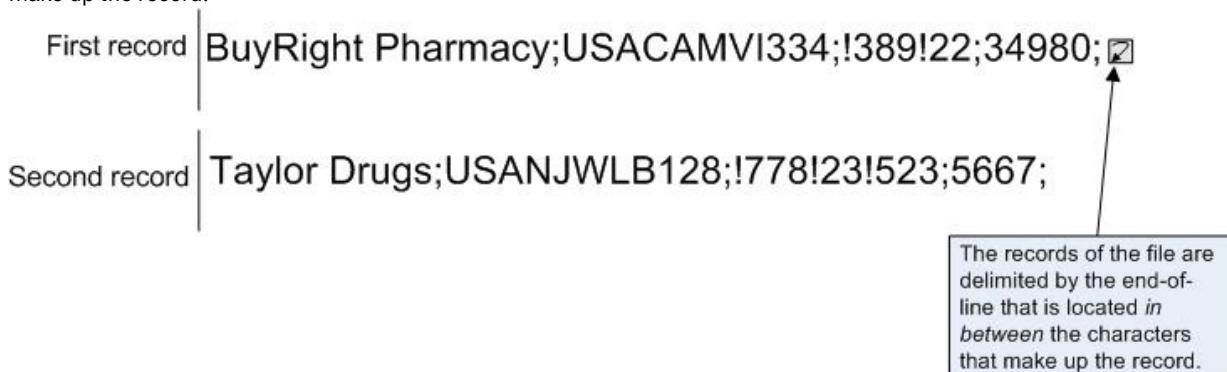
Taylor Drugs;USANJWLB128;!778!23!523;5667;

Use a top-down approach for defining the records and fields of the Flat File Schema as shown in the following steps:

## Procedure

1. Create a root node:
  - a. In the Project tab, right-click the Flat File Schemas folder and select New Flat File Schema. The Basic Wizard dialog box opens.
  - b. Enter Order in the Name field.
  - c. Click OK. The Flat File Schema Editor opens and the Flat File Schema is displayed beneath the Flat File Schemas folder in the Project tab. In addition, a root node of the same name shows in the Schema Layout tab.
2. Determine the highest level of structure in the data. In this example the largest structure is the two lines that each represent a record. The two records in this Flat File data are delimited by an end-of-line that is located in between the two records, as shown in [Figure 1](#):

Figure 1. Mixed example 1: the records of the file are delimited by the end-of-line that is located between the characters that make up the record.

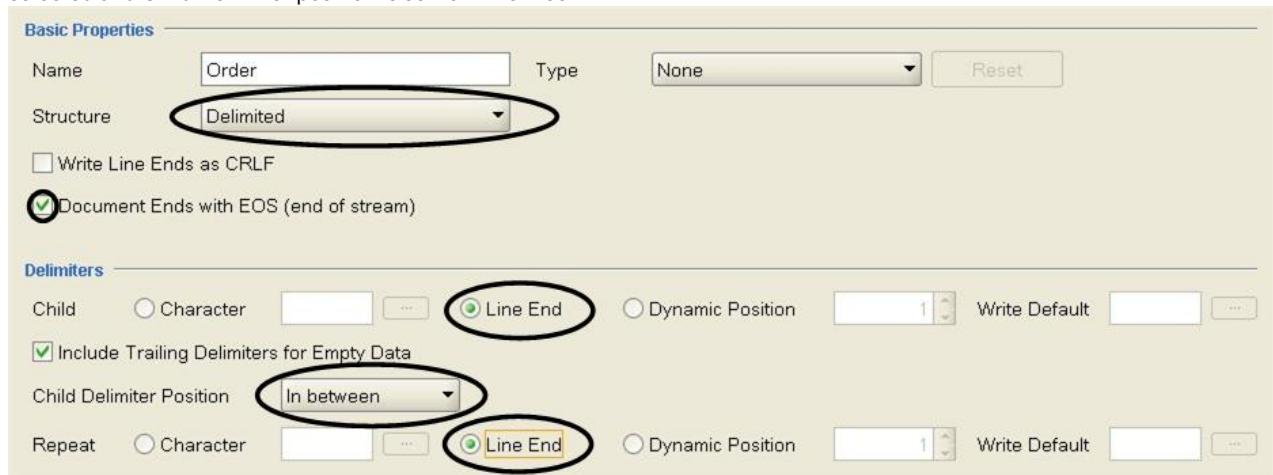


3. Configure the root node called Order to parse the child repeating records using the following criteria:

- o Separate the data into records using a delimiter.
- o Expect the document to end with an EOS (End Of Stream) because the last record does not end with a delimiter.
- o Use the end-of-line delimiter to delimit any child records.
- o Expect the delimiter in between the data.
- o Expect repeating child records.
- o Use the end-of-line delimiter to delimit the child repeating records.

Using these criteria, specify the following values for the Basic Properties and Delimiters pane of the Order node as shown in [Figure 2](#):

Figure 2. Mixed example pane 1 where Structure is Delimited and Document ends with EOS box ticked. The Line End option is selected and Child Delimiter position is set to In Between



- Add a child node to the root node to represent the records. In the Schema Layout tab, right-click the Order node. From the menu, select New Child > Record, enter purchaseOrder, and click OK.
- Determine the next level of structure in data. In this example, the next level of structure are the fields delimited by semicolons as shown in [Figure 3](#):

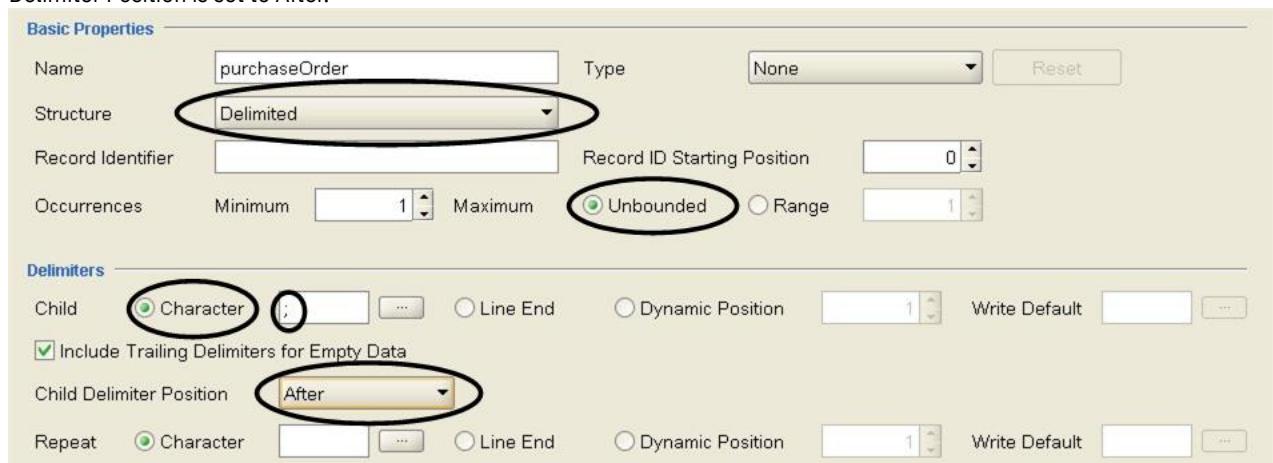
Figure 3. Mixed example 2: The individual fields of the record are delimited by semicolons.



- Configure the purchaseOrder node to parse these fields as described by following criteria:
  - The purchaseOrder node can have one or more occurrences.
  - Parse the data of the record into child fields using a delimiter.
  - Use the semicolon as the delimiter between the data.
  - Expect the delimiter after the data.

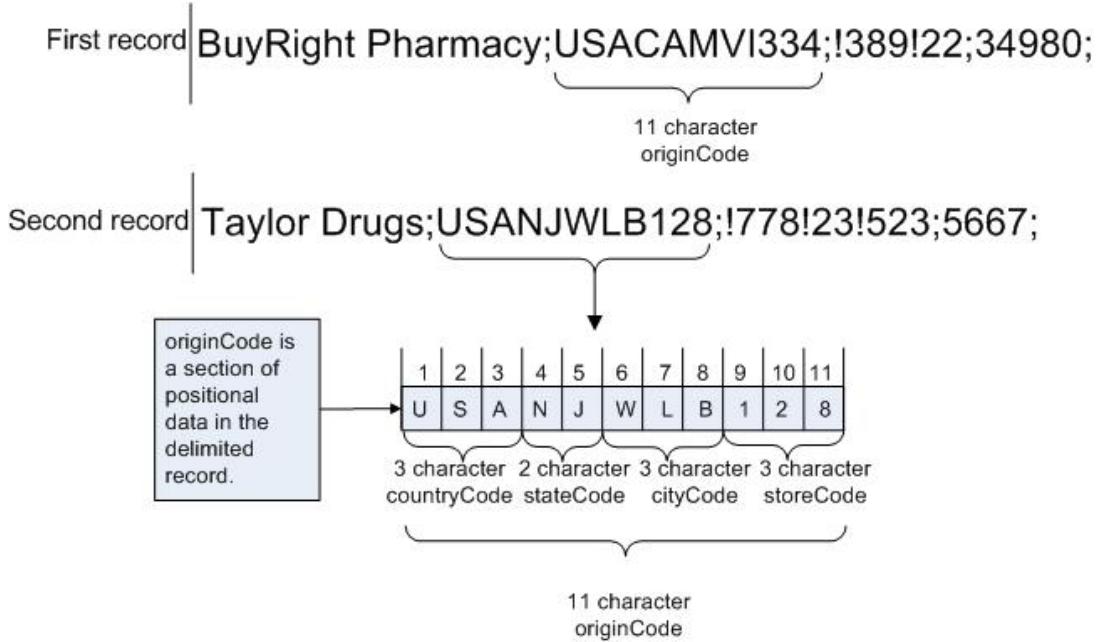
Using these criteria, specify the following values for the Basic Properties and Delimiters pane of the purchaseOrder node as shown in [Figure 4](#):

Figure 4. Mixed example pane 2: Structure is set to Delimited, Maximum unbounded and Character option selected. Child Delimiter Position is set to After.



- Add the fields of the purchaseOrder node by right-clicking the purchaseOrder node in the Schema Layout tab and selecting the New Children option from the list. The Bulk Add dialog box is displayed.
- In the Bulk Add dialog box, add all the child records and fields of the purchaseOrder node:
  - Click Add and change field1 to storeName. Leave the Node Type set to Field.
  - Click Add and change field2 to originCode. Change the Node Type to Record.
  - Click Add and change field3 to items. Change the Node Type to Record.
  - Click Add and change field4 to orderID. Leave the Node Type set to Field.
  - Click OK.
- Determine the next level of structure in data. In this example, the next level of structure is a set of positional data found in the originCode record as shown in [Figure 5](#):

Figure 5. Mixed example 3: originCode is a section of positional data in the delimited record.



10. Configure the originCode record to be positional:
  - a. In the Schema Layout tab, select the originCode node. The Basic Properties are displayed.
  - b. In the Structure list, select Positional.
11. Add the positional fields of the originCode node by right-clicking the originCode node in the Schema Layout tab and selecting the New Children option from the list. The Bulk Add dialog box opens.
12. In the Bulk Add dialog box, add all the child records and fields of the originCode node:
  - a. Click Add and change field1 to countryCode. Leave the Node Type set to Field.
  - b. Click Add and change field2 to stateCode. Leave the Node Type set to Field.
  - c. Click Add and change field3 to cityCode. Leave the Node Type set to Field.
  - d. Click Add and change field4 to storeCode. Leave the Node Type set to Field.
  - e. Click OK.
13. Configure the Positional Properties of each positional field. For each child node of the originCode node, click the node in the Schema Layout tab and at the end of the properties pane set the values of the Field Offset and Field Length as shown in the following list:

- o **countryCode** -
 

Positional Properties	
Field Offset: <input type="text" value="1"/>	Field Length: <input type="text" value="3"/>
- o **stateCode** -
 

Positional Properties	
Field Offset: <input type="text" value="1"/>	Field Length: <input type="text" value="2"/>
- o **cityCode** -
 

Positional Properties	
Field Offset: <input type="text" value="1"/>	Field Length: <input type="text" value="3"/>
- o **storeCode** -
 

Positional Properties	
Field Offset: <input type="text" value="1"/>	Field Length: <input type="text" value="3"/>

The Field Offset is calibrated from the current character location as the originCode string is being processed and not from the beginning of the originCode string for each field. In this example, the countryCode is processed and the first three characters of the originString are assigned to the countryCode. When the stateCode is processed, the current character location is already at the 3 character location, so the Field Offset of 1 of stateCode is added to the current character location to get the starting point for processing the stateCode string as shown in [Figure 6](#):

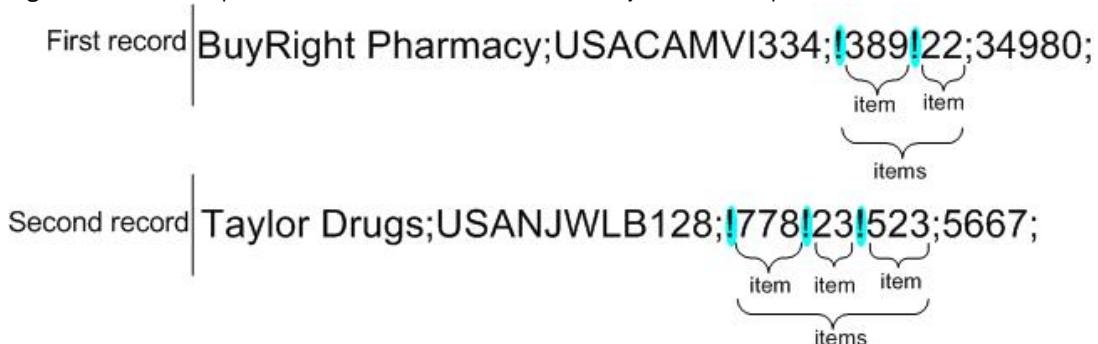
1	2	3	4	5	6	7	8	9	10	11
U	S	A	N	J	W	L	B	1	2	8

↑  
Current cursor location  
Field Offset location

Figure 6. Mixed Example 4 shows current cursor location and Field Offset.

14. Determine the next level of structure in data. In this example, the next level of structure are the repeating fields delimited by exclamation points as shown in [Figure 7](#):

Figure 7. Mixed example 5 where delimited data is indicated by exclamation points.



15. Configure the items node to parse child repeating records using the following criteria:

- o Separate the data into fields using a delimiter.
- o Use exclamation points as delimiters to delimit any child fields.
- o Expect the delimiter before the data.
- o Expect one or more repeating child fields.
- o Use exclamation points as delimiters to delimit the child repeating fields.

Using these criteria, specify the following values for the Basic Properties and Delimiters pane of the items node as shown in [Figure 8](#):

Figure 8. Mixed example pane 3 where Child Delimiter Position is set to Before.

The screenshot shows the configuration for the 'items' node. The 'Structure' dropdown is set to 'Delimited'. In the 'Delimiters' section, 'Child' is configured with a character delimiter '|'. 'Repeat' is also configured with a character delimiter '|'. The 'Child Delimiter Position' is set to 'Before', which is highlighted with a yellow oval. Other settings include 'Include Trailing Delimiters for Empty Data' checked and 'Record ID Starting Position' set to 0.

16. Add the repeating child field to the items node by right-clicking the items node in the Schema Layout tab and selecting the New Child > Field option from the list. The New Field dialog box opens.

17. In Field Name enter item and click OK.

18. Configure the item node to contain one or more occurrences as shown in [Figure 9](#):

Figure 9. Mixed example pane 4 where Maximum Repeat is set to Unbounded.

The screenshot shows the configuration for the 'item' node. The 'Type' is set to 'string'. Under 'Occurrences', there is a note: 'Optional-Field and delimiter (if applies) are omitted. Must be last field.' The 'Repeat' section shows 'Minimum' set to 1, 'Maximum' set to 'Unbounded' (which is highlighted with a yellow oval), and 'Range' set to 1.

The Flat File Schema is complete and ready to test.

19. Paste the following text into the left sub-pane of the test pane:

```
BuyRight Pharmacy;USACAMVI334;!389!22;34980;
```

```
Taylor Drugs;USANJWLB128;!778!23!523;5667;
```

This data is also provided in the mixedData.txt file. If you accepted the defaults during the installation of Studio, this file is located in the following directory: C:\Program Files\IBM\WebSphere Cast Iron Studio 3.X\Samples\FlatFileSchema

Attention: Do not add a carriage return after the last line.

20. Click the Test icon.



The Save Confirmation dialog box opens.

21. Click Yes. The following XML representation of the data is shown within the test pane:

```
<?xml version="1.0" encoding="UTF-8"?>
<Order>
    <purchaseOrder>
        <storeName>BuyRight Pharmacy</storeName>
        <originCode>
            <countryCode>USA</countryCode>
            <stateCode>CA</stateCode>
            <cityCode>MVI</cityCode>
            <storeCode>334</storeCode>
        </originCode>
        <items>
            <item>389</item>
            <item>22</item>
        </items>
        <orderId>34980</orderId>
    </purchaseOrder>
    <purchaseOrder>
        <storeName>Taylor Drugs</storeName>
        <originCode>
            <countryCode>USA</countryCode>
            <stateCode>NJ</stateCode>
            <cityCode>WLB</cityCode>
            <storeCode>128</storeCode>
        </originCode>
        <items>
            <item>778</item>
            <item>23</item>
            <item>523</item>
        </items>
        <orderId>5667</orderId>
    </purchaseOrder>
</Order>
```

22. In the Schema Layout tab, click the item node. In the right sub-pane of the test pane, the data parsed into the item node is highlighted as shown in [Figure 10](#):

Figure 10. The item node is highlighted

The screenshot shows the IBM WebSphere Cast Iron Studio interface. The left pane is titled 'Test File' and contains the input data: 'BuyRight Pharmacy;USACAMVI334;!389!22;34980;' and 'Taylor Drugs;USANJWLB128;!778!23!523;5667;'. The right pane is titled 'Schema Layout' and shows the XML structure. The 'item' node under the first purchaseOrder is highlighted in yellow, matching the highlighted lines in the Test File pane. The XML code is as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<Order>
    <purchaseOrder>
        <storeName>BuyRight Pharmacy</storeName>
        <originCode>
            <countryCode>USA</countryCode>
            <stateCode>CA</stateCode>
            <cityCode>MVI</cityCode>
            <storeCode>334</storeCode>
        </originCode>
        <items>
            <item>389</item>
            <item>22</item>
        </items>
        <orderId>34980</orderId>
    </purchaseOrder>
    <purchaseOrder>
        <storeName>Taylor Drugs</storeName>
        <originCode>
            <countryCode>USA</countryCode>
            <stateCode>NJ</stateCode>
            <cityCode>WLB</cityCode>
            <storeCode>128</storeCode>
        </originCode>
        <items>
            <item>778</item>
            <item>23</item>
            <item>523</item>
        </items>
        <orderId>5667</orderId>
    </purchaseOrder>
</Order>
```

23. Click the state node to view the data assigned into the state node.

Note: A reference implementation of the Order Flat File Schema is provided in the FlatFileSchemasExample project. To view and open the FlatFileSchemasExample project, follow steps 1 and 2 in the [Group Example](#) and double-click the Order Flat File Schema. The nodes of the Order Flat File Schema are displayed in the Schema Layout tab and the properties of the Order root node show in the right pane.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Mixed\\_Positional\\_and\\_Delimited\\_Example.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Mixed_Positional_and_Delimited_Example.html)

## Creating a flat file schema

---

### About this task

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To create a Flat File Schema:

### Procedure

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1. Select the Project tab from the Toolbox located on the right side of the main Studio pane.
2. To create a new Flat File Schema, choose from one of the following options:
  - o In the Project tab, right-click the Flat File Schemas folder and from the list select New Flat File Schema.
  - o In the Project tab, click New Flat File Schema ().
- The Basic Wizard dialog box is displayed.
3. Enter a [valid node name](#) for the Flat File Schema in the Name field.
4. Optional: If you want to use an existing Flat File Schema as a starting point, select the Inherit from an existing Flat File Schema check box. Click [...] to browse for the existing Flat File Schema from the Project Explorer dialog box, and click OK.
5. Click OK and press Enter. The Flat File Schema Editor opens and the Flat File Schema is displayed beneath the Flat File Schemas folder in the Project tab. Â In addition, a root node of the same name as the one shown in the Schema Layout tab.
6. Configure the root node:
  - a. Click the root node in the Schema Layout tab. The properties for the root node are displayed.
  - b. Configure the [root node properties](#).
7. Define the records, fields, and groups of the Flat File Schema for your Flat File data. Start from the outermost structure of data and work inwards. For an example on how to build a Flat File Schema from data see [Mixed positional and delimited example](#) or the "Developing the BookOrder Project" section of the *Getting Started Guide*.
8. Optional: You can select the Type Library tab and define the shared record types, group types, and field types for the data:
  - o [Add a Record Type](#) to define common record properties or content.
  - o [Add a Group Type](#) to define common group properties or content.
  - o [Add a Field Type](#) to define common field properties.
9. Select the Schema Layout tab, and add records, groups, and fields to the root node:
  - o [Add a Record](#) to define the major components of the message or for fields with complex structure.
  - o [Add a Group](#) to define a set of records or groups that repeat as a set.
  - o [Add a Field](#) to define the data within each record.
  - o [Add Several Children](#), of any type, to quickly build the content of records or groups.
10. [Test](#) the Flat File Schema.

The icons representing fields, field types, records, record types, groups, and group types are displayed in the Schema Layout and Type Library tabs as shown in the following table:

Node Type	Icon Displayed in Tabs
Field or field type that is not based on a field type	
Field or field type that is based on a field type	
Record or record type that is not based on a record type	
Record or record type that is based on a record type	
Group or group type that is not based on a group type	
Group or group type that is based on a group type	

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## Testing flat file schemas

---

### About this task

---

Test a flat file schema by completing the following steps:

### Procedure

---

1. [Create a flat file schema](#) or open an existing Flat File Schema by selecting it in the Project tab.
2. [Load input test data](#)
3. [Test a Flat File Schema](#) using the test data.
4. Optional: [Save test output data to a file](#).
  - [Load input test data](#)
  - [Test a Flat File Schema](#)
  - [Save test output data to a file](#)

**Parent topic:** [Flat File Schemas](#)

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## Load input test data

---

### About this task

---

The format of the test data depends on how the Flat File Schema is used in your orchestration as described in the following examples:

- If your orchestration contains a Read Flat File activity that reads in Flat File data, test the Flat File Schema using the incoming Flat File Data. The resulting data from the test is XML data.
- If your orchestration contains a Write Flat File activity that writes in a Flat File data file, test the Flat File Schema using the incoming XML data. The resulting data from the test is Flat File data.

In the left input sub-pane of the test pane, you can enter the test data directly or load a test data from a file on the file system:

### Procedure

---

1. In the test pane, specify the path and the filename for the data file using one of the following options:
  - Enter the path and file name for the input data file into the Test File field.
  - Click Browse to navigate to the file:
    - a. In the Open Sample Data File dialog box, select the input data file.
    - b. Optional: Select an encoding for the input data, using one of the following options:

- From the encoding list located in the upper left side of the dialog box, select one of the default encoding types.

- Enter your encoding type directly by clicking in the encoding field and typing in your encoding type
- c. Click Open.

Note: The size of the data displayed and transformed is determined by the settings of the Flat File preferences. These settings are important when loading very large data files. For more information, see the Flat File section of the table in [Setting Preferences](#).

2. Optional: You can change the how the input data is displayed by clicking the Display in Hexadecimal ( ) icon to toggle between displaying the text in the following two ways:

- Display just the text.
- Display the hexadecimal representation next to the text.

Note: If the input data is displayed in hexadecimal form, you cannot test or edit the data.

**Parent topic:** [Testing flat file schemas](#)

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## Test a Flat File Schema

---

### About this task

To test a Flat File Schema:

### Procedure

---

1. Click the Test () icon. The results pane is located on the right side of the test pane and shows the results of converting the sample data:
  - If the incoming data is Flat File data, the resulting data is an XML data.
  - If the incoming data is XML, the resulting data is Flat File data.
2. Optional: Change the font used to display the input and output data is displayed by clicking the following icons:
  - Click the Monospace font () button to display data using a font that displays each character with the same width. This option is useful for viewing positional text.
  - Click the Unicode font () button to display the input data using a font that supports double-byte characters.
3. Optional: Change the formatting used to display output data by clicking the following icons:
  - Click the Formatted () button to display XML output data formatted with carriage returns with indentation spacing of the XML elements.
  - Click the Unformatted () button to display the XML output data unformatted. During run time, the Integration Appliance produces the output XML data unformatted as shown when the Unformat button is selected.

**Parent topic:** [Testing flat file schemas](#)

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# Save test output data to a file

---

## About this task

---

To save the test output data to a file:

## Procedure

---

1. Test sample data as described in [Test a Flat File Schema](#).
2. To save the test result data unformatted without carriage returns and indentation spacing of the XML elements, click the  Unformat button. During run time, the Integration Appliance produces the output XML data unformatted. If the Format () button is selected before saving the file, the carriage returns and spaces used to indent the XML elements are saved to the file.
3. When the resulting data displays in the results pane, click the Save () icon. The Save Test Result dialog box opens.
4. Browse for a directory on your computer where you want to save the result data file.
5. Enter the name and file extension for the result data file.
6. Click Save.

**Parent topic:** [Testing flat file schemas](#)

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# Root node properties

---

When a root node is selected in the Schema Layout tab, the following two sections of properties are available in the pane: Basic Properties and Delimiters.

## Basic Properties

---

The Basic Properties of the root node are defined in the following table:

Property	Definition
Name	Specifies the name assigned to this Flat File Schema. When you create a Flat File Schema in the Project tab the name entered for the Flat File Schema is the default name of the root node. Attention: The root node name for a Flat File Schema must be a <a href="#">valid node name</a> .
Type	Optional: Specifies the record type used as a basis for the root node. Attention: Selecting a new type might reset some of the existing properties of the record with the new settings.
Reset	Resets properties that were set locally for this record to the values for the selected type. A Reset is only active if a record type has been selected from the Type list.
Structure	<ul style="list-style-type: none"><li>• Select <a href="#">Delimited</a> from the list if the outermost level of the structure in the data is determined by delimiters.</li><li>• Select <a href="#">Positional</a> from the list if the outermost level of the structure in the data is determined by their position.</li></ul>

Property	Definition
Write Line Ends as CRLF	Specifies how the Integration Appliance should write end of line characters when a Write Flat File activity creates outgoing data. If the receiving system for this data is a Windows platform, the Integration Appliance must write Line End characters as carriage return, line feed (CRLF). The default is to write Line End characters as a line feed (LF), the default for UNIX. The Integration Appliance accepts both line end characters (LF and CRLF) when parsing data.
Document Ends with EOS (end of stream)	Specifies that the end of the data is delimited with an end-of-stream (EOS) character for parsing incoming Flat File data in the Read Flat File activity or when producing Flat File data in the Write Flat File activity. End-of-stream might need to be specified for data where the transport mechanism treats the data as a stream rather than a file.

## Delimiters

If the Delimited option is selected for the Structure property for the root node, the following root node delimiter properties are active:

- Child Delimiter
- Include Trailing Delimiters for Empty Data
- Child Delimiter Position
- Repeat Delimiter

### Child Delimiters

The Child property defines the character that delimits children of the root node. This character is commonly called the record delimiter, segment delimiter, or line delimiter.

Specify the type of child delimiter by selecting one type from the three options listed in the following table:

Option	Definition
Character	<p>Specifies the character for the child delimiter. If the Character option is selected for the Child Delimiter, you must enter a single character using one of the following actions:</p> <ul style="list-style-type: none"> <li>• Type in the character.</li> <li>• Type in the Unicode value of the character. For example, enter /u0020 for the space character.</li> <li>• Click [...] to browse for a character. The Character Selection dialog box opens listing the valid character choices for delimiters. In the Display column, the character or a mnemonic representing the character is displayed. In addition, the corresponding hexadecimal value and Unicode code point for the character is displayed.</li> </ul> <p>Select a character and click OK. If the selected character does not have a visual symbol, a mnemonic or the Unicode value might show for this character.</p> <p>For more information about any of these characters, see the Basic Latin and Latin-1 Supplement character sets at: <a href="http://www.unicode.org/charts/">http://www.unicode.org/charts/</a>.</p>

Option	Definition
Line End	Specifies that the child delimiter is the end of the line, either a LF (line feed) or CRLF (carriage return, line feed). If the children are delimited with just a CR (carriage return), select the Character option and specify a CR (carriage return) character as the delimiter. The Integration Appliance accepts both line end characters (LF and CRLF) when parsing data. When writing data, the character used for line ends is determined by the Write Line Ends As CRLF property.
Dynamic Position	<p>Specifies that the character used as the child delimiter is defined dynamically within the data. Dynamic delimiters must show at a specific position within the first record of the data, such as in EDI or HL7 data. How the character is used by the Integration Appliance depends if the Flat File data is incoming or outgoing:</p> <ul style="list-style-type: none"> <li>• While parsing incoming Flat File data in the Read Flat File activity, the Integration Appliance reads the character at the specified position of the first record and uses it as a child delimiter to parse the rest of the data. The Write Default text field is not used when incoming Flat File data is read.</li> <li>• While writing outgoing Flat File data in the Write Flat File activity, the Integration Appliance uses the character specified in the Write Default text field to delimit the children of the root node. In addition, the specified character is written at the specified position of the first record in the outgoing data.</li> </ul>
Write Default	<p>Specifies the character that should be used as the child delimiter when the Integration Appliance writes outgoing data in the Write Flat File activity of the root node. In addition, the specified character is written at the specified position of the first record in the outgoing data. The character specified in this field is not used when incoming Flat File data is read in the Read Flat File activity. In the Write Default text field of the pane, enter a single character using one of the following actions:</p> <ul style="list-style-type: none"> <li>• Type in the character.</li> <li>• Type in the Unicode value of the character. For example, enter /u0020 for the space character.</li> <li>• Click [...] to browse for a character. The Character Selection dialog box opens listing the valid character choices for delimiters. In the Display column, the character or a mnemonic representing the character is displayed. In addition, the corresponding hexadecimal value and Unicode code point for the character is displayed. Select a character and click OK. If the selected character does not have a visual symbol, a mnemonic or the Unicode value might display for this character. For more information about any of these characters, see the Basic Latin and Latin-1 Supplement character sets at: <a href="http://www.unicode.org/charts/">http://www.unicode.org/charts/</a></li> </ul>

#### Include Trailing Delimiters for Empty Data

Select the Include Trailing Delimiters for Empty Data check box to specify that delimiters for empty optional children must be present at the end of the record or field when the Integration Appliance writes outgoing Flat File data in the Write Flat File activity.

Clear this check box, if delimiters for empty optional children may be omitted.

This check box does not affect how the Integration Appliance reads incoming data because when reading data the Integration Appliance accepts either the absence or presence of delimiters with empty data.

### Child Delimiter Position

This property defines the position of record delimiters for data. Select one option from the following table:

Position	Definition
After	Specifies that the child delimiter marks the end of a child, including the last child in the data, as shown in the following example where the comma delimiter is shown after the fields: field1,field2,field3,  After is the most common position for record delimiters.
Before	Specifies that the child delimiter indicates the beginning of a child. The end of the last child is marked by the parent's delimiter as shown in the following example where the exclamation point delimiter is shown in <a href="#">Figure 1</a> .  !
In between	Specifies that delimiters are placed between children but do not show at either the beginning of the first child nor the end of the last child as shown in the following example, where the comma delimiter show in between the fields:  field1,field2,field3

Figure 1. Exclamation point delimiter in the Before position

```
!field1of1stRecord!field2of1stRecord!field3of1stRecord
!field1of2ndRecord!field1of2ndRecord!field1of2ndRecord
```

For an example with all three types of child delimiter positions, see [Mixed positional and delimited example](#).

### Repeat Delimiter

This property determines the delimiter used between repeated occurrences of one record in the Flat File data. Select one option from the following table:

Header	Header
Character	<p>Specifies the character for the repeat delimiter. If the Character option is selected for the Repeat Delimiter, you must enter a single character using one of the following actions:</p> <ul style="list-style-type: none"> <li>• Type in the character.</li> <li>• Type in the Unicode value of the character. For example, enter <code>/u0020</code> for the space character.</li> <li>• Click [...] to browse for a character. The Character Selection dialog box opens listing the valid character choices for delimiters. In the Display column, the character or a mnemonic representing the character is displayed. In addition, the corresponding hexadecimal value and Unicode code point for the character is displayed.</li> </ul> <p>Select a character and click OK. Â If the selected character does not have a visual symbol, a mnemonic or the Unicode value might show for this character.</p> <p>For more information about any of these characters, see the Basic Latin and Latin-1 Supplement character sets at: Â <a href="http://www.unicode.org/charts/">http://www.unicode.org/charts/</a>.</p>
Line End	<p>Specifies that the repeat delimiter is the end of the line, either a LF (line feed) or CRLF (carriage return, line feed). Â If the children are delimited with just a CR (carriage return), select the Character option and specify a CR (carriage return) character as the delimiter. The Integration Appliance accepts both line end characters (LF and CRLF) when parsing data. When writing data, the character used for line ends is determined by the Write Line Ends As CRLF property.</p>

Header	Header
Dynamic Position	<p>Specifies that the character used as the repeat delimiter is defined dynamically within the data. Dynamic delimiters must show at a specific position within the first record of the data, such as in EDI or HL7 data. How the character is used by the Integration Appliance depends if the Flat File data is incoming or outgoing:</p> <ul style="list-style-type: none"> <li>While parsing incoming Flat File data in the Read Flat File activity, the Integration Appliance reads the character at the specified position of the first record and uses it as a repeat delimiter to parse the rest of the data. The Write Default text field is not used when incoming Flat File data is read.</li> <li>While writing outgoing Flat File data in the Write Flat File activity, the Integration Appliance uses the character specified in the Write Default text field to delimit the repeating children of the root node. In addition, the specified character is written at the specified position of the first record in the outgoing data.</li> </ul>
Write Default	<p>Specifies the character that should be used as the child delimiter when the Integration Appliance writes outgoing data in the Write Flat File activity of the root node. In addition, the specified character is written at the specified position of the first record in the outgoing data. The character specified in this field is not used when incoming Flat File data is read in the Read Flat File activity. In the Write Default text field of the pane, enter a single character using one of the following actions:</p> <ul style="list-style-type: none"> <li>Type in the character.</li> <li>Type if the Unicode value of the character. For example, enter /u0020 for the space character.</li> <li>Click [...] to browse for a character. The Character Selection dialog box opens listing the valid character choices for delimiters. In the Display column, the character or a mnemonic representing the character is displayed. In addition, the corresponding hexadecimal value and Unicode code point for the character is displayed. Select a character and click OK. If the selected character does not have a visual symbol, a mnemonic or the Unicode value might display for this character. For more information on any of these characters, see the Basic Latin and Latin-1 Supplement character sets at: <a href="http://www.unicode.org/charts/">http://www.unicode.org/charts/</a></li> </ul>

Parent topic: [Flat File Schemas](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/root\\_node\\_properties.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/root_node_properties.html)

## Adding Fields or Field Types

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### About this task

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Why add fields?

You can define a field based on one of the following simple data types:

- boolean - true or false
- string - text in the specified encoding
- integer - whole numbers
- numeric - decimal numbers

You create fields in the Schema Layout tab. Fields are displayed in the Schema Layout tab using the following icon:



Fields that are based on a field type are displayed in the Schema Layout tab using the following icon:



Use records to model flat File data fields that have complex structures, such as components or subcomponents.

Why add Field Types?

You can define a field type with particular properties to be reused later. For example, if you wanted to create many fields that all use a double quotation mark as an encapsulation character, you could define a field type with the encapsulation character set to the double-quotes character and then create multiple fields based on this field type.

You create field types in the Type Library tab. Field types are displayed in the Type Library tab using the following icon:



Field types that are based on a field type are displayed in the Type Library tab using the following icon:



Adding Fields or Field Types

The procedure for adding fields and field types is identical except for the tab you initially select as described in the following procedure.

## Procedure

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1. Open a Flat File Schema from the Project tab.
2. Select the appropriate tab:
  - To add a field, select the Schema Layout tab.
  - To add a field type, select the Type Library tab.
3. Select one of the following options from the list:
  - New Child > Field: To add a field as a child of the current node.
  - New Sibling > Field: To add a field as a sibling of the current node.
  - [New Children](#): to add child fields and records in bulk.
4. In the New Field dialog box, enter a valid node name in the Field Name field.
5. If this field should be based on a field type, select the field type from the Based on Field list.
6. Click OK. The field node () shows in the appropriate tree (Schema Layout or Type Library) and the field properties show in the properties pane to the right of the tree.
7. Specify the properties for the field or field type.

**Parent topic:** [Flat File Schemas](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/mde\\_Adding\\_Fields\\_or\\_Field\\_Types.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/mde_Adding_Fields_or_Field_Types.html)

## Field properties

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When a field is selected in the Schema Layout tab or a field type is selected in the Type Library tab, the following properties sections display in the pane:

- Basic Properties
- Padding and Trimming
- Delimiters
- Positional Properties

## Basic Properties

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The Basic Properties of a field are defined in the following table:

Property	Description
Name	Specifies the name of this field. Attention: The field name must be a <a href="#">valid node name</a> .
Type	Optional: Specifies the field type used as a basis for the field. The Type list is only active if a field type has been created. Attention: Selecting a new type might reset some of the existing properties of the field with the new settings.
Reset	Resets properties that have been set locally for this field to the values for the selected type.
Type	Specifies one of the following data types for the field: <ul style="list-style-type: none"> <li>• <b>string</b> - A text in the specified encoding</li> <li>• <b>boolean</b> - true or false</li> <li>• <b>integer</b> - any whole number</li> <li>• <b>numeric</b> - any decimal number</li> </ul>
Occurrences Optional	For delimited data, this check box specifies that both the field and its delimiter can be omitted from the data. For positional data there is no delimiter so just the field is just omitted. If the field can be empty but the delimiter must be present, then the field is considered required and this check box should not be selected. Attention: When specifying the optional property for a field, be careful not to create an ambiguous grammar for the Flat File Schema. For more information, see <a href="#">Specifying Optional Fields and Records</a> .
Repeat Minimum	Specifies the minimum number occurrences of the field.
Repeat Maximum	Controls repetitions of this single field. Select one of the following options: <ul style="list-style-type: none"> <li>• Unbounded - Specifies this field can repeat any number of times</li> <li>• Range - Specify the maximum number of repetitions for this field. The actual occurrences of the field can be less than or equal to this number.</li> </ul> Note: Multiple occurrences are only allowed when the parent node has specified a repeat delimiter.

## Padding and Trimming

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Whether data is trimmed or padded depends on the following conditions:

- In the Read Flat File activity, when converting Flat File data to XML data, the characters of the Flat File field are *trimmed* before being placed into the corresponding XML field.
- In the Write Flat File activity, when converting XML data to Flat File Data, the characters of the XML element are *padded* before being placed into the corresponding Flat File field.

The Padding and Trimming properties of a field are defined in the following table:

Property	Description

Property	Description
Pad/Trim Character	<p>Specifies the single character used to pad the length of, or to trim from a field.</p> <p>In the Character text field of the pane, enter a single character using one of the following actions:</p> <ul style="list-style-type: none"> <li>Type in the character.</li> <li>Type if the Unicode value. For example, enter /u0020 for the space character.</li> <li>Click [...] to browse for a character. The Character Selection dialog box opens listing the valid character choices for delimiters. In the Display column, the character or a mnemonic representing the character is displayed. In addition, the corresponding hexadecimal value and Unicode code point for the character is displayed. Select a character and click OK. If the selected character does not have a visual symbol, a mnemonic or the Unicode value might show for this character. For more information about any of these characters, see the Basic Latin and Latin-1 Supplement character sets at: <a href="http://www.unicode.org/charts/">http://www.unicode.org/charts/</a></li> </ul>
Pad to Length	<p>Specifies the final length of data for the field when converting XML data to Flat File Data in the Write Flat File activity. The specified padding characters are added to the data for the field up to this length. Typically the size of the padding is the same as the field.</p> <p>Note: This value specified in this field is not used while trimming Flat File data to XML data in the Read Flat File activity.</p>
Justification	<p>Specifies how what side of the field is padded or trimmed:</p> <ul style="list-style-type: none"> <li>Left - When the Left option is specified, the action that occurs depends on if the field is read or written: <ul style="list-style-type: none"> <li>Read Flat File activity - When the field is read, the specified trim characters are trimmed from the end of the field. For example, if the trim character is equal to a hyphen character, the Field Length is equal to 10, and the Flat File input field is equal to ---1234---. The result is the following XML element: &lt;element&gt;--1234&lt;/element&gt;.</li> <li>Write Flat File activity - When the field is written, the padding is added after the field data. For example, if the pad character is equal to a hyphen character, the Pad to Length is equal to 10, and the input XML element is equal to &lt;element&gt;1234&lt;/element&gt;, the result is the following Flat File field: 1234-----.</li> </ul> </li> </ul>
Â	<ul style="list-style-type: none"> <li>Right - When the Right option is specified, the action that occurs depends on if the field is being read or written: <ul style="list-style-type: none"> <li>Read Flat File activity - When the field is read, padding characters are trimmed from the beginning of the field. For example, if the trim character is equal to a hyphen character, the Field Length is equal to 10, and the Flat File input field is equal to ---1234---. The result is the following XML element: &lt;element&gt;1234---&lt;/element&gt;.</li> <li>Write Flat File activity - When the field is written, padding is added before the field data. For example, if the pad character is equal to a hyphen character, the Pad to Length is equal to 10, and the input XML element is equal to &lt;element&gt;1234&lt;/element&gt;, the result is the following Flat File field: -----1234. Â</li> </ul> </li> </ul>

## Delimiters

The Escape and Encapsulation Delimiters of a field are defined in the following table. These properties are only used if the parent record has the Delimited option selected for Structure property.

Property	Description

Property	Description
Escape character	<p>Specifies the single character used to escape delimiters within the data of the field. During run time, the Integration Appliance parses the character directly after this delimiter as a character, not as a delimiter.</p> <p>In the Character text field of the pane, enter a single character using one of the following actions:</p> <ul style="list-style-type: none"> <li>• Type in the character.</li> <li>• Type in the Unicode value of the character. For example, enter /u0020 for the space character.</li> <li>• Click [...] to browse for a character. The Character Selection dialog box opens listing the valid character choices for delimiters. In the Display column, the character or a mnemonic representing the character is displayed. In addition, the corresponding hexadecimal value and Unicode code point for the character is displayed. Select a character and click OK. If the selected character does not have a visual symbol, a mnemonic or the Unicode value might show for this character. For more information about any of these characters, see the Basic Latin and Latin-1 Supplement character sets at: <a href="http://www.unicode.org/charts/">http://www.unicode.org/charts/</a></li> </ul>
Â	<p>For example, how is the following record parsed when no escape character is defined and the delimiter of the record is a colon?</p> <p>135:Caving: What You Really Need to Know:10</p> <p>The preceding Â record would be parsed into the following 4 fields:</p> <ul style="list-style-type: none"> <li>• 135</li> <li>• Caving</li> <li>• What You Really Need to Know</li> <li>• 10</li> </ul> <p>If you do not want the <i>Caving What You Really Need to Know</i> title broken up into two fields, you can specify an escape character of backslash and preface the colon with a backslash character as shown in the following record:</p> <p>135:Caving/: What You Really Need to Know:10</p> <p>When this Flat File record is parsed with the escape character before the colon, the title is not broken up into two sections even though the record uses the colon as a delimiter.</p>
Dynamic Position	<p>Specifies the character position, starting from 1, where the escape character is defined in the first record. Â The escape character is determined at run time using the character found at the specified character position. For example, how is the following record parsed when no encapsulation character is defined and the delimiter of the record is a colon?</p> <p>135:Caving: What You Really Need to Know:10</p> <p>The preceding Â record would be parsed into the following 4 fields:</p> <ul style="list-style-type: none"> <li>• 135</li> <li>• Caving</li> <li>• What You Really Need to Know</li> <li>• 10</li> </ul> <p>If you do not want the <i>Caving What You Really Need to Know</i> title broken up into two fields, you can specify a Dynamic Position of 11 and add a backslash character before the colon as shown in the following record:</p> <p>135:Caving/: What You Really Need to Know:10</p> <p>The escape character is now equal to the 11th character in the record: the backslash character. When this Flat File record is now parsed with the escape character is equal to the backslash character, the colon after Caving does not break this field into two sections even though the record uses the colon as a delimiter.</p>

Property	Description
Write Default	<p>Specifies the escape character to use when writing this field as Flat File data. Write Default is only used in the Write Flat File activity when converting XML data to Flat File data. Write Default is not used when converting Flat File data to XML data in the Read Flat File activity.</p> <p>In the Write Default text field of the pane, enter a single character using one of the following actions:</p> <ul style="list-style-type: none"> <li>Type in the character.</li> <li>Type in the Unicode value of the character. For example, enter /u0020 for the space character.</li> <li>Click [...] to browse for a character. The Character Selection dialog box opens listing the valid character choices for delimiters. In the Display column, the character or a mnemonic representing the character is displayed. In addition, the corresponding hexadecimal value and Unicode code point for the character is displayed. Select a character and click OK. If the selected character does not have a visual symbol, a mnemonic or the Unicode value might show for this character. For more information about any of these characters, see the Basic Latin and Latin-1 Supplement character sets at: <a href="http://www.unicode.org/charts/">http://www.unicode.org/charts/</a></li> </ul> <p>For example, you wanted to escape the colon with a backslash in the <code>&lt;title&gt;Caving: What You Really Need to Know&lt;/title&gt;</code>. XML element, when converting it to Flat File data, specify a backslash in the Write Default field. The runtime result for this field is the following string:</p> <pre>Caving\: What You Need to Know</pre> <p>The character position specified in the Dynamic Position field is not used when an XML element is converted to Flat File data.</p>
Encapsulation Character	<p>Specifies a delimiter character to encapsulate data in the field because the field could contain character(s) that are being used to delimit this field in the parent record.</p> <p>In the Character text field of the pane, enter a single character using one of the following actions:</p> <ul style="list-style-type: none"> <li>Type in the character.</li> <li>Type in the Unicode value of the character. For example, enter /u0020 for the space character.</li> <li>Click [...] to browse for a character. The Character Selection dialog box opens listing the valid character choices for delimiters. In the Display column, the character or a mnemonic representing the character is displayed. In addition, the corresponding hexadecimal value and Unicode code point for the character is displayed. Select a character and click OK. If the selected character does not have a visual symbol, a mnemonic or the Unicode value might show for this character. For more information about any of these characters, see the Basic Latin and Latin-1 Supplement character sets at: <a href="http://www.unicode.org/charts/">http://www.unicode.org/charts/</a></li> </ul>
Â	<p>For example, how is the following record parsed when no encapsulation character is defined and the delimiter of the record is a colon?</p> <pre>135:Caving: What You Really Need to Know:10</pre> <p>The preceding Â record would be parsed into the following 4 fields</p> <ul style="list-style-type: none"> <li>• 135</li> <li>• Caving</li> <li>• What You Really Need to Know</li> <li>• 10</li> </ul> <p>If you do not want the <i>Caving What You Really Need to Know</i> title broken up into two fields, you can specify the encapsulation character to be a double quotation mark and surround the book title with double quotation marks as shown in the following record:</p> <pre>135:"Caving: What You Really Need to Know":10</pre> <p>When this Flat File record is now parsed with the encapsulation character set to double quotation marks, the colon after Caving does not break this field into two sections even though the parent record uses the colon as a delimiter. The Integration Appliance reads all the characters between two encapsulation delimiters as characters rather than delimiters.</p>

Property	Description
Dynamic Position	<p>Specifies the character position, starting from 1, where the delimiter is defined in the first record. The encapsulation delimiter is determined at run time using the character found at the specified character position</p> <p>For example, how is the following record parsed when no encapsulation character is defined and the delimiter of the record is a colon?</p> <p>135:Caving: What You Really Need to Know:10</p> <p>The preceding record would be parsed into the following 4 fields:</p> <ul style="list-style-type: none"> <li>• 135</li> <li>• Caving</li> <li>• What You Really Need to Know</li> <li>• 10</li> </ul> <p>If you do not want the <i>Caving What You Really Need to Know</i> title broken up into two fields, you can specify the Dynamic Position of 5 and surround the book title with double quotation marks and as shown in the following record:</p> <p>135:"Caving: What You Really Need to Know":10</p> <p>The encapsulation character is equal to the 5th character in the record: the double quotation mark character. When this Flat File record is now parsed with the encapsulation character is equal to the double quotation mark character, the colon after Caving does not break this field into two sections even though the record uses the colon as a delimiter. The Integration Appliance reads all the characters between two encapsulation delimiters as characters and not delimiters.</p>
Write Default	<p>Specifies the encapsulation character to use when writing this field as Flat File data. Write Default is only used in the Write Flat File activity when converting XML data to Flat File data. The Write Default is not used when converting Flat File data to XML data in the Read Flat File activity.</p> <p>In the Write Default text field of the pane, enter a single character using one of the following actions:</p> <ul style="list-style-type: none"> <li>• Type in the character.</li> <li>• Type in the Unicode value of the character. For example, enter /u0020 for the space character.</li> <li>• Click [...] to browse for a character. The Character Selection dialog box opens listing the valid character choices for delimiters. In the Display column, the character or a mnemonic representing the character is displayed. In addition, the corresponding hexadecimal value and Unicode code point for the character is displayed. Select a character and click OK. If the selected character does not have a visual symbol, a mnemonic or the Unicode value might show for this character. For more information about any of these characters, see the Basic Latin and Latin-1 Supplement character sets at: <a href="http://www.unicode.org/charts/">http://www.unicode.org/charts/</a>.</li> </ul>
Â	<p>For example, you wanted to encapsulate the data found in the &lt;title&gt;Caving: What You Really Need to Know&lt;/title&gt; XML element with quotation marks when converting it to Flat File data, specify the double quotation marks in the Write Default field. The runtime result for this field is the following string:</p> <p>"Caving: What You Need to Know"</p> <p>The character position specified in the Dynamic Position field is not used when an XML element is converted to Flat File data.</p>

## Positional Properties

The Positional Properties of a field are defined in the following table. These properties are only active if the parent record has the Positional option selected for Structure property.

Field	Description
Field Offset	Specifies the number of characters to skip, starting from the end of the previous field, to reach the beginning of this field.

Field	Description
Field Length	Specifies the length of the data for this field.

Parent topic: [Flat File Schemas](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_field\\_properties.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_field_properties.html)

## Adding Records or a Record Type

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### About this task

Why add records?

You use records to define the structure of your Flat File data. Records can contain fields, groups, or other records. ▶ Records that are children of another record are used to model fields with a complex structure. Records can also be used to define additional layers of hierarchy of the data.

The fields and subrecords of a record are parsed using one of the following methods:

- **Delimited:** The fields and child records within the record use delimiters to define their beginning and end points. Some delimited formats use record IDs as identifiers and beginning delimiters. For examples of defining records that parse delimited data, see the following examples:
  - [Mixed positional and delimited example](#)
  - "Developing the BookOrder Project" section of the *Getting Started Guide*
- **Positional:** the fields within the record use no delimiters but are defined instead by their position and length. Positional fields are also known as fixed-length fields. For an example of defining a record that parses positional data, see [Mixed positional and delimited example](#).

You create records in the Schema Layout tab. Records that contain child records and fields and are not based on a record type are displayed in the Schema Layout tab using the following icon:



Records that are based on a record type are displayed in the Schema Layout tab using the following icon:



Why Add Record Types?

Record types define a set of record properties, fields, and child records that can be reused by multiple records. ▶ For example, you could define an address record type that contains a street field, a city field, a state field, and a zip code field. You could then use the address record type as the basis of all the addresses in the Flat File Schema, for example to define the shipping address record and the billing address record.

You create record types in the Type Library tab. Record types that contain child records and fields and are not based on a record type are displayed in the Type Library tab using the following icon:



Record types that are based on a record type are displayed in the Type Library tab using the following icon:



Note:

- Record types are only reusable to the current Flat File Schema and are not global to the project.

- Records based on a record type can only inherit child nodes from the record type. Child nodes cannot be added to a record that is based on a record type.
- The child nodes inherited from the record type are only visible in the Type Library tab and are not visible in the Schema Layout tab.
- Record types can also be based on other record types, inheriting both properties and children from parent record types.

To add a record or a record type:

## Procedure

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1. Open a Flat File Schema from the Project tab.
2. Select the appropriate tab:
  - To add a record, select the Schema Layout tab.
  - To add a record type, select the Type Library tab.
3. Right-click a node in the tab and select one of the options in the list:
  - New Child > Record: To add a record as a child of the current node. Records can only be children of the root node, another record, or a group.
  - New Sibling > Record: To add a record as a sibling after the current node.
  - New Children: to add child fields and records in bulk.
4. Enter a [valid node name](#) for the new record in the New Record pane.
5. If this record should be based on a record type, select the record type from the Based on Record list.
6. Click OK. The record node is shown in the appropriate tab (Schema Layout or Type Library) and record properties display in the Properties pane.
7. Specify the properties for the record or record type.
8. If you are creating a new record not based on a record type, add fields, groups, or records to define the content of the record. If you based the record on a record type, the record is complete and because the content of the record is defined by the record type.

**Parent topic:** [Flat File Schemas](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/mde\\_Adding\\_Records\\_or\\_a\\_Record\\_Type.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/mde_Adding_Records_or_a_Record_Type.html)

## Record properties

---

When a record is selected in the Schema Layout tab or a record type is selected in the Type Library tab, the following sections of properties are available in the pane:

- Basic Properties
- Delimiters

## Basic Properties

---

The Basic Properties of a record are defined in the following table:

Property	Description
Name	Specifies the name of this record. Attention: The field name must be a <a href="#">valid node name</a> .
Type	Optional: Specifies the record type used as a basis for the record. The Type list is only active if the selected record node does not contain any children and a record type has been created. A record cannot inherit fields or subrecords from a record type if the record contains children. Attention: Selecting a new type might reset some of the existing properties of the record with the new settings.

Property	Description
Reset	Resets properties that have been set locally for this record to the values for the selected type. Reset is only active if a record type has been selected from the Type list.
Structure	<ul style="list-style-type: none"> <li>Specify Delimited if the structure of the record is determined by delimiters.</li> <li>Specify Positional if the structure of the record is determined positions in the record.</li> </ul>
Record Identifier	Specifies the unique string that identifies this record. Record identifiers are called segment IDs in X.12 message standards such as EDI or HL7, and typically begin each record.
Record ID Starting Position	Specifies the character position where the record ID begins after the end of the previous record. The default is 0, which places the record ID at the beginning of the record.
Minimum Occurrences	Specifies the minimum number of repetitions for this record. The default is 1, which means the record is required. Specify 0 if this record is optional. <b>WARNING:</b> When specifying the optional property for a record, be careful not to create an ambiguous grammar for the Flat File Schema. For more information, see Specifying Optional Fields and Records.
Maximum Occurrences	Controls repetitions of the single record. Select one of the following options: Unbounded - Specifies this record can repeat any number of times. Range - Specify the maximum number of repetitions for this record. The actual occurrences in a specific message can be less than or equal to this limit. <b>NOTE:</b> Multiple occurrences are only allowed when the parent node has specified

## Delimiters

---

If the Delimited option is selected for the Structure property for the record, the following record delimiter properties are active:

- Child Delimiter
- Include Trailing Delimiters for Empty Data
- Child Delimiter Position
- Repeat Delimiter

Child delimiters

### Child Delimiters

The Child property defines the character that delimits children of the record. This character is commonly called the record delimiter, segment delimiter, or line delimiter.

Specify the type of child delimiter by selecting one type from the three options listed in the following table:

Option	Definition

O pt io n	<b>Definition</b>
Character	<p>Specifies the character for the child delimiter. If the Character option is selected for the Child Delimiter, you must enter a single character using one of the following actions:</p> <ul style="list-style-type: none"> <li>Type in the character.</li> <li>Type in the Unicode value of the character. For example, enter <code>/u0020</code> for the space character.</li> <li>Click [...] to browse for a character. The Character Selection dialog box opens listing the valid character choices for delimiters. In the Display column, the character or a mnemonic representing the character is displayed. In addition, the corresponding hexadecimal value and Unicode code point for the character is displayed.</li> </ul> <p>Select a character and click OK. Â If the selected character does not have a visual symbol, a mnemonic or the Unicode value might show for this character.</p> <p>For more information about any of these characters, see the Basic Latin and Latin-1 Supplement character sets at: <a href="http://www.unicode.org/charts/">http://www.unicode.org/charts/</a>.</p>
Lined	<p>Specifies that the child delimiter is the end of the line, either a LF (line feed) or CRLF (carriage return, line feed). If the children are delimited with just a CR (carriage return), select the Character option and specify a CR (carriage return) character as the delimiter. The Integration Appliance accepts both line end characters (LF and CRLF) when parsing data. When writing data, the character used for line ends is determined by the Write Line Ends As CRLF property.</p>
Dynamically Positio	<p>Specifies that the character used as the child delimiter is defined dynamically within the data. Dynamic delimiters must show at a specific position within the first record of the data, such as in EDI or HL7 data. How the character is used by the Integration Appliance depends if the Flat File data is incoming or outgoing:</p> <ul style="list-style-type: none"> <li>While parsing incoming Flat File data in the Read Flat File activity, the Integration Appliance reads the character at the specified position and uses it as a child delimiter to parse the rest of the data. The Write Default text field is not used when incoming Flat File data is read.</li> <li>While writing outgoing Flat File data in the Write Flat File activity, the Integration Appliance uses the character specified in the Write Default text field to delimit the children of the record. In addition, the specified character is written at the specified position of the first record in the outgoing data.</li> </ul>
Write Default	<p>Specifies the character that should be used as the child delimiter when the Integration Appliance writes outgoing data in the Write Flat File activity. In addition, the specified character is written at the specified position of the first record in the outgoing data. The character specified in this field is not used when incoming Flat File data is read in the Read Flat File activity.</p> <p>In the Write Default text field of the pane, enter a single character using one of the following actions:</p> <ul style="list-style-type: none"> <li>Type in the character.</li> <li>Type in the Unicode value of the character. For example, enter <code>/u0020</code> for the space character.</li> <li>Click [...] to browse for a character. The Character Selection dialog box opens listing the valid character choices for delimiters. In the Display column, the character or a mnemonic representing the character is displayed. In addition, the corresponding hexadecimal value and Unicode code point for the character is displayed. Select a character and click OK. Â If the selected character does not have a visual symbol, a mnemonic or the Unicode value might display for this character.</li> </ul> <p>For more information about any of these characters, see the Basic Latin and Latin-1 Supplement character sets at: <a href="http://www.unicode.org/charts/">http://www.unicode.org/charts/</a></p>

#### Include Trailing Delimiters for Empty Data

Select the Include Trailing Delimiters for Empty Data check box to specify that delimiters for empty optional children must be present at the end of the record or field when the Integration Appliance writes outgoing Flat File data in the Write Flat File activity.

Clear this checkbox, if delimiters for empty optional children might be omitted.

This check box does not affect how the Integration Appliance reads incoming data because when reading data the Integration Appliance accepts either the absence or presence of delimiters with empty data.

#### Child Delimiter Position

This property defines the position of record delimiters for data. Select one option from the following table:

Position	Definition

<b>Position</b>	<b>Definition</b>
After	Specifies that the child delimiter marks the end of a child, including the last child in the data. After is the most common position for record delimiters.
Before	Specifies that the child delimiter indicates the beginning of a child. The end of the last child is marked by the delimiter of the parent.
In between	Specifies that delimiters are placed between children but do not show at either the beginning of the first child nor the end of the last child.

For an example with all three types of child delimiter positions, see [Mixed positional and delimited example](#).

#### **Repeat Delimiter**

This property determines the delimiter used between repeated occurrences of one record in the Flat File data. Select one option from the following table:

P o s i t i o n	<b>Definition</b>
C h ar ac te r	Specifies the character for the repeat delimiter. If the Character option is selected for the Repeat Delimiter, you must enter a single character using one of the following actions: <ul style="list-style-type: none"> <li>Type in the character.</li> <li>Type in the Unicode value of the character. For example, enter /u0020 for the space character.</li> <li>Click [...] to browse for a character. The Character Selection dialog box opens listing the valid character choices for delimiters. In the Display column, the character or a mnemonic representing the character is displayed. In addition, the corresponding hexadecimal value and Unicode code point for the character is displayed.</li> </ul> Select a character and click OK. Â If the selected character does not have a visual symbol, a mnemonic or the Unicode value might show for this character. <p>For more information about any of these characters, see the Basic Latin and Latin-1 Supplement character sets at: <a href="http://www.unicode.org/charts/">http://www.unicode.org/charts/</a>.</p>
Li n e E n d	Specifies that the repeat delimiter is the end of the line, either a LF (line feed) or CRLF (carriage return, line feed). Â If the children are delimited with just a CR (carriage return), select the Character option and specify a CR (carriage return) character as the delimiter. The Integration Appliance accepts both line end characters (LF and CRLF) when parsing data. When writing data, the character used for line ends is determined by the Write Line Ends As CRLF property.
D y n a m ic P os iti o n	Specifies that the character used as the repeat delimiter is defined dynamically within the data. Dynamic delimiters must show at a specific position within the first record of the data, such as in EDI or HL7 data. How the character is used by the Integration Appliance depends if the Flat File data is incoming or outgoing: <ul style="list-style-type: none"> <li>While parsing incoming Flat File data in the Read Flat File activity, the Integration Appliance reads the character is the specified position and uses it as a repeat delimiter to parse the rest of the data. The Write Default text field is not used when incoming Flat File data is read.</li> <li>While writing outgoing Flat File data in the Write Flat File activity, the Integration Appliance uses the character specified in the Write Default text field to delimit the repeating children of the root node. In addition, the specified character is written at the specified position of the first record in the outgoing data.</li> </ul>

<b>P o si ti o n</b>	<b>Definition</b>
W rit e  D ef a ul t	<p>Specifies the character that should be used as the repeat delimiter when the Integration Appliance writes outgoing data in the Write Flat File activity. In addition, the specified character is written at the specified position of the first record in the outgoing data. The character specified in this field is not used when incoming Flat File data is read in the Read Flat File activity.</p> <p>In the Write Default text field of the pane, enter a single character using one of the following actions:</p> <ul style="list-style-type: none"> <li>• Type in the character.</li> <li>• Type if the Unicode value of the character. For example, enter /u0020 for the space character.</li> <li>• Click [...] to browse for a character. The Character Selection dialog box opens listing the valid character choices for delimiters. In the Display column, the character or a mnemonic representing the character is displayed. In addition, the corresponding hexadecimal value and Unicode code point for the character is displayed. Select a character and click OK.</li> </ul> <p>Â If the selected character does not have a visual symbol, a mnemonic or the Unicode value might display for this character. For more information about any of these characters, see the Basic Latin and Latin-1 Supplement character sets at: <a href="http://www.unicode.org/charts/">http://www.unicode.org/charts/</a></p>

**Parent topic:** [Flat File Schemas](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_record\\_properties.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_record_properties.html)

## Adding Groups or Group Types

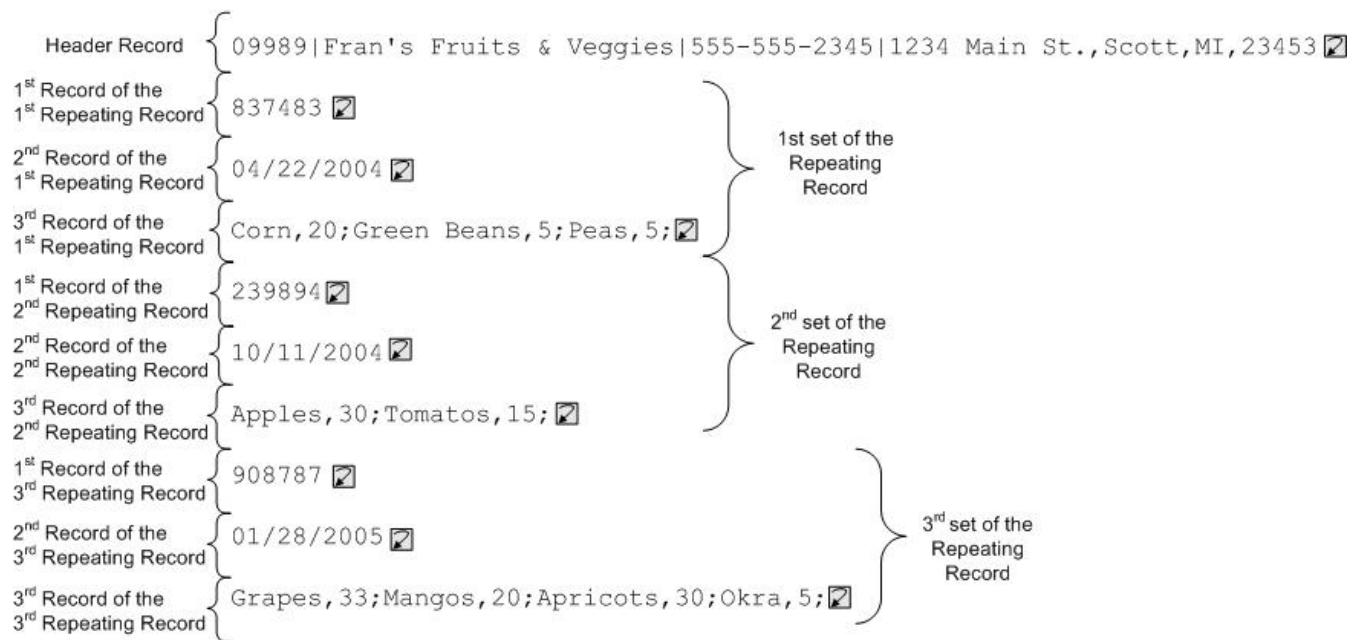
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### About this task

Why add groups?

Groups allow you to define repeated occurrences of sets of records, for example the groups that are used with EDI messages to define loops. Groups are only required when the data does not provide any additional delimiters or structure to clearly mark the beginning and end of repetitions that contain more than one record. Â The following example data shows a repeating set of records that can be defined using groups:

## Using Groups to Define Repeating Sets of Data



Groups can contain any number of records or other groups. Groups cannot contain fields. For an example of using a group to model the preceding input Flat File data, see [Group Example](#).

You create groups in the Schema Layout tab. Groups that are not based on a group type are displayed in the Schema Layout tab using the following icon:



Groups that are based on a group type are displayed in the Schema Layout tab using the following icon:



Note: Groups are not global to the project and can only be reused in the current Flat File Schema.

### Why Add Group Types?

Group types allow you to define a set of repeating records or groups once and then use it many times within a Flat File Schema. Both the occurrence properties and the content you define in a group type are inherited by any group based on that type.

Note:

- Groups based on a group type cannot contain any other content besides the nodes inherited from the group type.
- The content inherited from the group type is not visible in the Schema Layout tab.
- Group types can also be based on other group types.
- Group types are not global to the project and can only be reused in the current Flat File Schema.

Create group types in the Type Library tab. Group types that are not based on a group type are displayed in the Type Library tab using the following icon:



Group types that are based on a group type are displayed in the Type Library tab using the following icon:



### Adding Groups or Group Types

The procedure for adding groups and group types is identical except for the tab you initially select as described in the following procedure. To add a group or group type:

## Procedure

1. Open a Flat File Schema from the Project tab.
2. Select the appropriate tab:

- o To add a group, select the Schema Layout tab.
  - o To add a group type, select the Type Library tab.
3. Select the appropriate tab:
- o To add a group, select the Schema Layout tab.
  - o To add a group type, select the Type Library tab.
4. Select one of the following options from the list:
- o New Child > Group: To add a group as a child of the current node.
  - o New Sibling > Group: To add a group as a sibling of the current node.
  - o **New Children:** to bulk add groups as a child of the current group or record.
5. In the New Group dialog box, enter a [valid node name](#) in the Group Name field.
6. If this group should be based on a group type, select the group type from the Based on Group list.
7. Click OK. The group node is shown in the appropriate tab (Schema Layout or Type Library) and group properties display in the Basic Properties pane.
8. Specify the properties for the group.
- If this group is based on a group type that defines the content for the group, the group is complete. If not, define the content of the group.

**Parent topic:** [Flat File Schemas](#)

[Feedback](#) | [Notices](#)

 Last updated: Wednesday, 15 June 2016  
<file:///dcs/markdown/workspace/Transform/out.html>

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/mde\\_Adding\\_Groups\\_or\\_Group\\_Types.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/mde_Adding_Groups_or_Group_Types.html)

## Group Properties

When a group is selected in the Schema Layout tab, the Basic Properties of a group are displayed. When a group type is selected in the Type Library tab, the Basic Properties of the group type are displayed. The Basic Properties of a group or group type are listed in the following table:

Field	Description
Name	Specifies the name of this field. Attention: The field name must be a <a href="#">valid node name</a> .
Type	Optional: Specifies the group type used as a basis for the group. The Type list is only active if the selected group node does not contain any children and a group type has been created. A group cannot inherit groups or records from a group type if the group contains children. Attention: Selecting a new type may reset some of the existing properties of the field with the new settings.
Reset	Resets properties that were set locally for this group to the values for the selected type. Reset is only active if a group type has been selected from the Type list.
Minimum Occurrences	Specifies the minimum occurrences for the group. Defaults to 1, making the group required. Select 0 if this group is optional.
Maximum Occurrences	Specifies the maximum occurrences for the group: <ul style="list-style-type: none"> <li>• Unbounded - Specifies this group can repeat any number of times. Unbounded, optional groups must contain at least one required record.</li> <li>• Range - Specifies the maximum number of repetitions for this group. The actual occurrences of the group can be less than or equal to this number.</li> </ul>

**Parent topic:** [Flat File Schemas](#)

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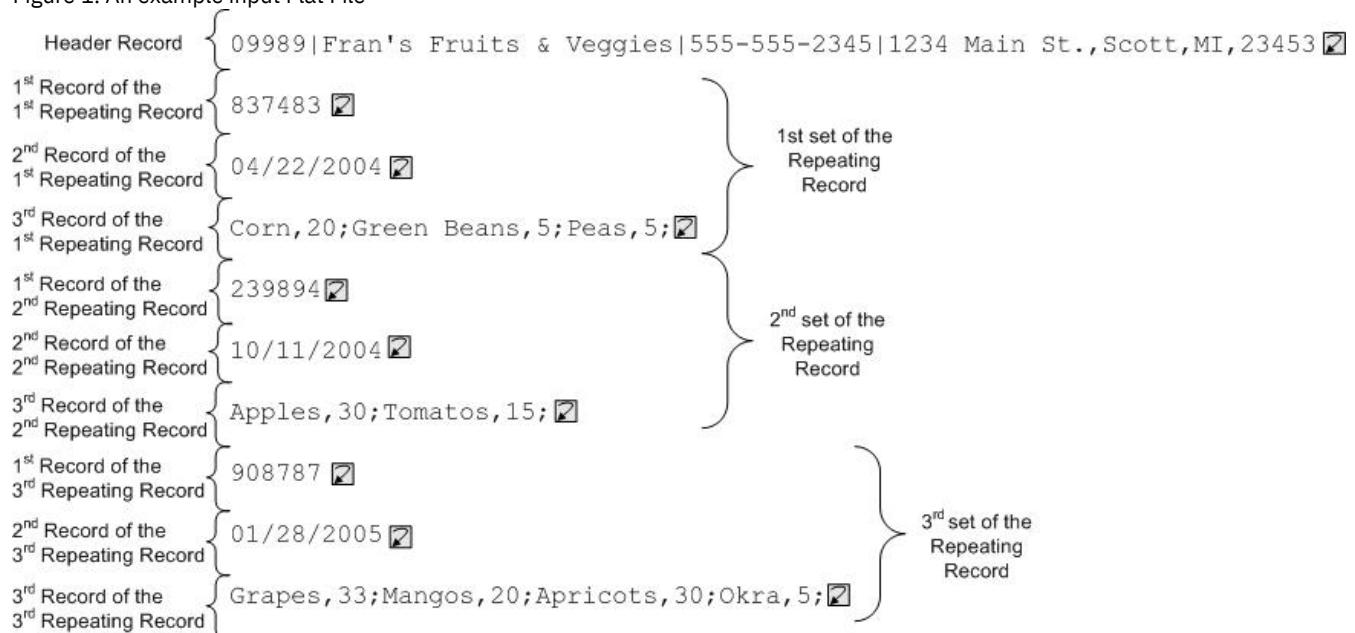
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Group\\_Properties.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Group_Properties.html)

## Group Example

### About this task

This example shows a Flat File Schema that parses a repeating set of records using groups. Each set of the repeating record contains records of different types as shown in the following example input Flat File data:

Figure 1. An example input Flat File



In this example data, the first, second, and third records of the repeating set are each a different type of record. In addition, this example shows how types stored in the Type Library tab are used in a Flat Files Schema. In this example, you view and test an existing Flat File Schema rather than creating the Flat File Schema from scratch.

To open, view, and test the Flat File Schema used to parse the input data displayed in Figure 1:

### Procedure

1. In this example, the Flat File Schema is already built in the FlatFileSchemasExample project. To view the Flat File Schema, you must first extract the FlatFileSchemasExample project:
  - a. Find the Default Create Path defined in Studio - the directory that new projects are created in. To view the current Default Create Path, select File > Preferences... from the Studio toolbar menu. The Preferences dialog opens. The current Default Create Path shows at the end of the pane. By default, the Default Create Path is located in the following directory:

C:\Documents and Settings\myLogin\My Documents

Where *myLogin* represents your Windows login name.
  - b. Find the FlatFileSchemasExample.zip file that contains the files that make up the FlatFileSchemasExample project. If you accepted the defaults during the installation of Studio, this file is located in the following directory:

C:\Program Files\IBM\WebSphere Cast Iron Studio 3.X\Samples\FlatFileSchema
  - c. Copy the FlatFileSchemasExample.zip file from the FlatFileSchema directory to the Default Create Path directory.
  - d. Extract the contents of FlatFileSchemasExample.zip file into the Default Create Path directory.
2. Open the FlatFileSchemasExample project:
  - a. Select File > Open Project... from the Studio toolbar menu. The Open dialog box shows.

- b. Browse for and open the FlatFileSchemasExample directory.
  - c. Click the FlatFileSchemasExample.sp3 file and click Open. The project is displayed.
3. Open the prebuilt vegPO Flat File Schema. In the Flat File Schemas folder of the Project tab, double-click the vegPO Flat File Schema. The nodes of the vegPO Flat File Schema are displayed in the Schema Layout tab and the properties of the vegPO root node show in the right pane.
4. Test the vegPO Flat File Schema:
- a. In the test pane, click Browse. The Open Sample Test Data File dialog box opens.
  - b. Browse for the vegPO.txt file that contains the input data. If you accepted the defaults during the installation of Studio, this file is located in the following directory:
- C:\Program Files\IBM\WebSphere Cast Iron Studio 3.X\Samples\FlatFileSchema
- c. Click Open. The input data from the vegPO.txt file shows in the left pane of the Test tab.
  - d. Click the Test (play) icon. In the results pane, the result of the conversion is displayed as XML data.
5. In the Schema Layout tab, click the vegPO root node. The vegPO root node is displayed with the following properties:
- a. Structure property is equal to Delimited - The structure of the root node is delimited.
  - b. Child delimiter is equal to Line End- The child records are delimited by an end-of-line.
  - c. Child Delimiter Position is equal to After - Expect the delimiters after each record
  - d. Repeat delimiter is equal to Line End- Repeating records are also delimited by end-of-line.
6. In the Schema Layout tab, click the orderingStore node. The first line of the input data is highlighted within the test pane as shown in the following figure:

**vegPO**

**Basic Properties**

Name	orderingStore
Structure	Delimited
Record Identifier	
Occurrences	Minimum 1

**Delimiters**

Child	Character
<input checked="" type="checkbox"/> Include Trailing Delimiters for Empty Data	
Child Delimiter Position	In between
Repeat	Character

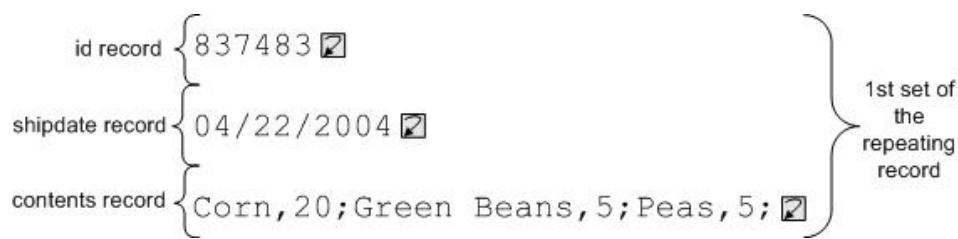
**Test File** \Cast Iron Studio 3.6\Samples\FlatFileSchema\vegPO.txt

```
09989|Fran's Fruits & Veggies|555-555-2345|1234 Main St., Scott, MI, 23453
837483
04/22/2004
Corn,20;Green Beans,5;Peas,5;
239894
10/11/2004
Apples,30;Tomatos,15;
908787
01/28/2005
Grapes,33;Mangos,20;Apricots,30;Okra,5;
```

The first record of the vegPO Flat File Schema is a header record called orderingStore that occurs only once. In the Schema Layout tab, the fields and record that make up the orderingStore record display as children. This first line is parsed into the

fields and records that make up the orderingStore record.

After the first header record, the sets of repeating elements start. Each set of repeating elements contains three child records of different types as shown in the following figure:



A repeating record that contains child records of different types can be modeled in the Flat File Schema Editor using groups. Groups are only required when the data does not provide any additional delimiters or structure to clearly mark the beginning and end of repetitions that contain more than one record. The delimiters for the repetitions are inherited from the parent record or root node. In this example for the vegPO root node, the repeat delimiter is set to end-of-line. The orders group node uses end-of-line delimiter to parse its repeating records

7. In the Schema Layout tab, click the orders group node. Note the following graphical changes in the panes:
  - o In the left subpane of the test pane, all the lines after the header line are highlighted. This highlighting indicates that after parsing, all the data after the first record are all assigned to the orders group node.
  - o In the Basic Properties pane, the Occurrences of the orders group is Unbounded. This setting means that there can be one or more instances of this group.
  - o In the Basic Properties pane, for the orders group the Type is equal to order. This setting means that the orders group is based on the order group type. The contents and the properties of the order group type are defined in the Type Library tab.
8. Select the Type Library tab. The record types and group types used in the vegPO Flat File Schema display. The order group type contains three records as shown in the following figure:



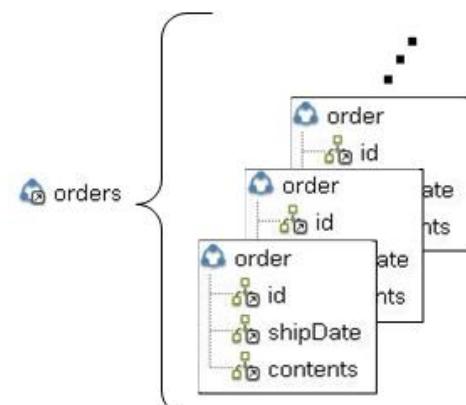
The following icon represents a record that is based on a record type:



The orders group with the order group type define a set of repeating records of different records because of the following characteristics:

- o There can be one to many instances of the orders group.
- o The order group type contains three records of different types.
- o The orders group is based on or inherits from the order group type.

The repeating relationship between the orders group and the order group type is shown in the following figure:



9. In the Type Library tab, click the id record node of the order group type. Note the following graphical changes in the panes:
  - o In the Basic Properties pane, the Type of the id record is equal to the record type named orderID. This setting means that the id record is based on the orderID record type.
  - o In the left subpane of the test pane, the first line of each repeating record is highlighted as shown in the following figure:

Test File Systems\Cast Iron Studio 3.0.2\Samples\BookOrder\vegPO.txt Browse

```
09989|Fran's Fruits & Veggies|555-555-2345|1234 Main St., Scott, MI, 23453
837483
04/22/2004
Corn,20;Green Beans,5;Peas,5;
239894
10/11/2004
Apples,30;Tomatos,15;
908787
01/28/2005
Grapes,33;Mangos,20;Apricots,30;Okra,5;
```

This highlighting indicates that the first line of each repeating record is assigned to the id record.

- In the Type Library tab, click the shipdate record node of the order group type. Note the following graphical changes in the panes:

- In the Basic Properties pane, the Type of the shipdate record is equal to the record type named shippingDate. This setting means that the shipdate record is based on the shippingDate record type.
- In the Basic Properties pane, the Structure of the shipdate record is Positional. This setting means that the child fields of the shipDate record are determined by their position and length in the record and not by delimiters.
- In the left subpane of the test pane, the second line of each repeating record is highlighted as shown in the following figure:

Test File Systems\Cast Iron Studio 3.0.2\Samples\BookOrder\vegPO.txt Browse

```
09989|Fran's Fruits & Veggies|555-555-2345|1234 Main St., Scott, MI, 23453
837483
04/22/2004
Corn,20;Green Beans,5;Peas,5;
239894
10/11/2004
Apples,30;Tomatos,15;
908787
01/28/2005
Grapes,33;Mangos,20;Apricots,30;Okra,5;
```

This highlighting indicates that the second line of each repeating record is assigned to the shipDate record. The shipDate record contains three positional child fields (month, day, and year) that are inherited from the shippingDate record type.

- In the Type Library, click the month field node of the shippingDate record type. In the left subpane of the test pane, the values assigned to the month field are highlighted as shown in the following figure:

Test File Antacid\studio\etc\installer\samples\FlatFileSchema\vegPO.txt Browse

```
09989|Fran's Fruits & Veggies|555-555-2345|1234 Main St., Scott, MI, 23453
837483
04/22/2004
Corn,20;Green Beans,5;Peas,5;
239894
10/11/2004
Apples,30;Tomatos,15;
908787
01/28/2005
Grapes,33;Mangos,20;Apricots,30;Okra,5;
```

- In the Type Library, click the contents record node of the order group type. Note the following graphical changes in the panes:

- In the Basic Properties pane, the Type of the contents record is equal to the record type named orderContent. This setting means that the contents record is based on the orderContent record type.
- In the left subpane of the test pane, the third line of each repeating record is highlighted as shown in the following figure:

Test File Systems\Cast Iron Studio 3.0.2\Samples\BookOrder\vegPO.txt [Browse](#)

```
09989|Fran's Fruits & Veggies|555-555-2345|1234 Main St., Scott, MI, 23453
837483
04/22/2004
Corn,20;Green Beans,5;Peas,5;
239894
10/11/2004
Apples,30;Tomatos,15;
908787
01/28/2005
Grapes,33;Mangos,20;Apricots,30;Okra,5;
```

The orderContent record type contains the vegetables record. The vegetables record its contains a set of repeating vegetable records. The vegetable record contains a name field and a pounds field.

13. In the Type Library, click the name record node of the orderContent record type. In the left subpane of the test pane, the values assigned to the name field are highlighted as shown in the following figure:

Test File Systems\Cast Iron Studio 3.0.2\Samples\BookOrder\vegPO.txt [Browse](#)

```
09989|Fran's Fruits & Veggies|555-555-2345|1234 Main St., Scott, MI, 23453
837483
04/22/2004
Corn,20;Green Beans,5;Peas,5;
239894
10/11/2004
Apples,30;Tomatos,15;
908787
01/28/2005
Grapes,33;Mangos,20;Apricots,30;Okra,5;
```

**Parent topic:** [Flat File Schemas](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Group\\_Example.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Group_Example.html)

## Working with Nodes in the Schema Tabs

---

### About this task

In the Schema tab or the Type Library tab, you can do the following actions:

- [Copy nodes](#)
- [Delete nodes](#)
- [Rename nodes](#)
- [Move nodes](#)

You can also bulk-add many children. For more information, see [Adding Several Children](#).

- [Copy nodes](#)
- [Delete nodes](#)
- [Rename nodes](#)
- [Move nodes](#)

**Parent topic:** [Flat File Schemas](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Working\\_with\\_Nodes\\_in\\_the\\_Schema\\_Tabs.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Working_with_Nodes_in_the_Schema_Tabs.html)

## Copy nodes

---

### About this task

---

You can copy nodes in the Schema Layout tab or in the Type Library tab using the following procedures:

- Copy and paste a Child node
- Copy and paste a Sibling node

You can also use keyboard shortcuts (CTRL+C, CTRL+V, CTRL+X) or the Edit toolbar menu options (Edit > Cut, Edit > Copy, Edit > Paste) to copy nodes.

#### To copy and paste a Child node:

Pasting a node as a child places the node inside the record or group you have selected at the end of any existing children.

1. Right-click the node you want to copy.
2. Select Copy.
3. Right-click the record or group that should be the parent of the node you are pasting.
4. Select Paste As Child.

If you paste a node within the same record or group that you copied it from, the Flat File Schema Editor changes the name of the new node to `copy_node-name`.

#### To copy and paste a Sibling node:

Pasting a node as a sibling places it directly above the node you have selected. This option is not available for the root node.

1. Right-click the node you want to copy.
2. Select Copy.
3. Right-click the node that should come directly after the node you are pasting.
4. Select Paste As Sibling.

If you paste a node within the same record or group that you copied it from, the Flat File Schema Editor changes the name of the new node to `copy_node-name`.

**Parent topic:** [Working with Nodes in the Schema Tabs](#)

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## Delete nodes

---

### About this task

---

You can delete nodes in the Schema Layout tab or the Type Library tab, using any of the following procedures:

- To delete a tree node by right-clicking the node
- To delete a tree node using the Delete key

You can also use keyboard shortcut cut (CTRL+X) or the Edit > Cut toolbar menu option to delete nodes.

#### To delete a tree node by right-clicking the node:

1. Right-click the node to be deleted.
2. Select Delete from the list.

#### To delete a tree node using the Delete key:

1. Click the node to be deleted.
2. Press Delete.

Attention: If you delete a type node in the Type Library tab that is used as the basis for records, groups, or fields within the Schema Layout tab, the nodes that are based on that type are affected in the following ways:

- The Type is changed to None.
- Node properties are left unchanged, but inherited content from the type node is removed.

**Parent topic:** [Working with Nodes in the Schema Tabs](#)

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## Rename nodes

---

### About this task

You can rename nodes in the Schema Layout tab or the Type Library tab, using any of the following procedures:

- Change a node name from the Basic Properties pane
- To change a node name using a shortcut menu
- To change a node name using F2

You can also use the Edit > Rename toolbar menu option to rename nodes.

#### To change a node name from the Basic Properties pane:

1. Double-click the node to open its properties.
2. Enter the new name into Name text field in the Basic Properties pane.

Note: Press Esc to cancel the editing of the name of a node.

#### To change a node name using a shortcut menu:

1. Right-click the node.
2. Select Rename from the list.
3. Enter a new [valid node name](#).

Note: Press Esc to cancel the editing of the name of a node.

#### To change a node name using F2:

1. Click the node to be renamed.
2. Press F2.
3. Enter a new [valid node name](#).

**Parent topic:** [Working with Nodes in the Schema Tabs](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Working\\_with\\_Nodes\\_rename.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Working_with_Nodes_rename.html)

## Move nodes

---

### About this task

---

You can move nodes in the Schema Layout tab or the Type Library tab, using any of the following procedures:

- To copy and paste a Child node (as described in [Copy nodes](#)).
- To copy and paste a Sibling node (as described in [Copy nodes](#)).
- To move nodes using drag and drop

#### To move nodes using drag and drop:

1. Select the node you want to move in the Schema Layout or Type Library tab.
2. Drag it over another node:
  - To make it the last child, drop it over the root, record, or group that should be the new parent.

**Parent topic:** [Working with Nodes in the Schema Tabs](#)

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## Adding Several Children

---

### About this task

---

Add several child records and fields to a root node or a record by right-clicking the node and selecting the New Children option from the list.

To add multiple child nodes to a Flat File Schema:

### Procedure

---

1. [Create a new Flat File Schema](#) or open an existing Flat File Schema by selecting it in the Project tab.
2. Select either the Schema Layout or Type Library tab.
3. Right-click the root node or a record node in the tree and select New Children. The Bulk Add dialog box opens.
4. Click Add.
5. Click the Name field and enter a [valid node name](#) for the field, record, or group to be added.
6. Click the Node Type field and select a node type (Field, Group, or Record) for the child from the list.
7. If this node is based on a record type, group type, or field type, click the Based On Type field and select an existing type from the list.
8. Repeat steps 4-7 for each node you want to add.
9. To reorganize or delete the nodes in the list:
  - Click Up to move a child up the list.
  - Click Down to move a child down the list.
  - Click Delete to delete a child.
10. When finished, click OK.
11. In the Schema Layout or Type Library tab, select the node and edit the properties:

- [Edit the field properties](#)
- [Edit the record properties](#)
- [Edit group properties](#)

**Parent topic:** [Flat File Schemas](#)

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## Valid Node Names

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When a Flat File Schema is created, an internal XML Schema-based representation of the metadata is also generated, so the node names you specify for the records, fields, and groups *must* be valid XML names. Follow the naming restrictions listed in the following tables when creating node nodes in Flat File Schema.

Attention: You might be able to enter invalid characters into the Name field but the generated Flat File Schema might be incorrect. You cannot create a variable from an invalid schema.

XML naming restrictions are listed in the following tables.

Valid Name Types	Description
Starting Name Characters	<ul style="list-style-type: none"> <li>• <b>Letters:</b> both uppercase and lower case</li> <li>• <b>Punctuation:</b> underscore (_)</li> </ul>
Non-starting Name Characters	<ul style="list-style-type: none"> <li>• <b>Letters:</b> both uppercase and lowercase</li> <li>• <b>Punctuation:</b> underscore, period, and hyphen</li> <li>• <b>Numbers:</b> 0-9</li> </ul>

Invalid Characters	Description
Â Â Â	space
:	colon
~	tilde
/	forward slash
\	backslash
;	semicolon
?	question mark
\$	dollar sign
&	ampersand
%	percent sign
@	at sign
^	hat sign
=	equals sign
*	asterisk
+	plus sign
Â ()	any parentheses
	pipe

Invalid Characters	Description
' " `	any quotation marks
{ Â } [ ] > <	any brackets

**Parent topic:** [Flat File Schemas](#)

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## The Type Library Tab

---

In the Type Library tab, you can define reusable types for records, groups, and fields. Defining record types, group types, and field types allows you to define properties that can be reused in different parts of the Flat File Schema. Record and group types also allow you to define content that is reusable where a record or group can show in many places within the same set of Flat File Data.

Note: The type you create in the Type Library tab can only be used with the Flat File Schema visible in the Schema Layout tab. The type cannot be used by other Flat File Schemas in the same project.

**Parent topic:** [Flat File Schemas](#)

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## Specifying Optional Fields and Records

---

### About this task

When creating optional fields or records in a Flat File Schema, it is important to understand how the Flat File data is parsed so you can design your Flat File schema to avoid ambiguity. For example, if you create a Flat File Schema with a delimited root node and three child string fields where field1 is required, field2 is optional, and field3 is required, the grammar of the schema is ambiguous, as shown when the following data is parsed during run time:

A, C

This Flat File data could be parsed in the following two ways:

- field1 is equal to A and field2 is equal to B
- field1 is equal to A and field3 is equal to C

Specifying a required field after an optional field defines an ambiguous grammar that cannot be correctly parsed. Specifying a required record after an optional field also defines an ambiguous grammar that cannot be correctly parsed.

Redefining this Flat File Schema to contain three child string fields where field1 is required, field2 is optional, and field3 is optional does not fix this problem because when the Flat File data: A, C is parsed, field1 is equal to A, and field2 is equal to C. Again the grammar of the schema is ambiguous because this is not the wanted result, the wanted result was for the value: C to be assigned to field3. Specifying a required record followed by two optional records also defines an ambiguous grammar.

**Parent topic:** [Flat File Schemas](#)

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## Generating a flat file schema from an IDOC

---

At design time, using the Project > Import > SAP IDOC Schema toolbar menu option, you can interrogate an SAP endpoint for IDOC metadata and from that metadata generate a Flat File Schema.

WARNING: In order to connect to the SAP System from Studio, you must [download and install the SAP Jar file and DLLs](#) onto your Windows development workstation.

If you receive or send your SAP data as a file through a SAP File Port to the SAP system, you must use the Project > Import > SAP IDOC Schema toolbar menu option during design time to generate a Flat File Schema for your IDOC metadata and use the Read Flat File and Write Flat File activities to read and write the SAP data during run time. For more information, see the following two example orchestrations.

If you receive or send your SAP data directly from the SAP system using an RFC port, you must use the [SAP Receive IDOC](#) and [SAP Send IDOC](#) activities.

## Using the Generated Flat File Schema during Run Time

---

During design time, you use the Project > Import > SAP IDOC Schema toolbar menu option, to generate a Flat File Schema that describes the SAP data you receive or send to the SAP File Port. This section describes how that Flat File Schema is used by the following two example orchestrations during run time.

### Receive SAP Flat File Data from a SAP System Using an SAP File Port.

---

This first example orchestration receives SAP data from a SAP System during run time, using the following activities:

1. An SAP data file is placed into a directory that the FTP Poll Directory activity is polling in. This starts the processing of the orchestration job.
2. The FTP Poll Directory reads the SAP Flat File data and saves the result into a string variable.
3. Using the Flat File Schema generated during design time using the Project > Import > SAP IDOC Schema toolbar menu option, the Read Flat File activity converts the SAP data stored in the string variable to XML data and saves the XML data into an XML variable.
4. The Database Insert Rows activity maps the XML data from the XML variable to some database rows and inserts these rows into a database

### Send SAP Flat File Data From a SAP System Using an SAP File Port

---

This second example orchestration sends SAP data to a SAP System during run time, using the following activities:

1. Data is inserted into a database, triggering the Database Get Inserted Rows activity to start processing.
2. The Database Get Inserted Rows activity gets the data that was inserted into the database and converts it to XML data.
3. The Write Flat File activity converts the contents of the XML variable to the SAP Flat File data valid against the Flat File Schema generated during design time using the Project > Import > SAP IDOC Schema toolbar menu option.
4. The FTP Put File activity writes the Flat File data to a file into a directory.
5. The SAP System reads the data from the file.

#### To generate a Flat File Schema from an IDOC:

1. Select Project > Import > SAP IDOC Schema from the toolbar menu. The SAP IDOC Flat File Schema Generator Step 1 of 2 dialog box shows.
2. Enter the SAP connection information as described in the following table:

Field	Description
Location	Â
Host Name	Specifies the IP address or the workstation name that contains the SAP system.

Field	Description
System Number	Specifies the number that identifies the specific instance of the SAP system that Studio is to connect to. Your SAP administrator must supply this information.
SAP Client	Specifies a number that identifies Studio as a client for the SAP system. Your SAP administrator must supply this information.
Login	Â
User Name Â	Specifies the user name to use when connecting to the SAP system.
Password	Specifies the password to the user name when connecting to the SAP system.

3. Click Next. The SAP IDOC Flat File Schema Generator Step 2 of 2 dialog box is displayed.
4. Select an IDOC Type and optionally an IDOC SubType using one of the following options:
  - o Click [...] to browse for the IDOC Type, the IDOC SubType, or both. The IDOC List dialog box opens with the list of IDOC Types and IDOC SubTypes available on the selected SAP endpoint. Select an IDOC Type, the IDOC SubType, or both and click OK.
  - o Enter the IDOC Type, and optionally the IDOC SubType directly into the respective fields.
5. Select the Bundled check box if the incoming IDOC contains more than one instance of the IDOC message of the same IDOC Type and IDOC SubType. If Bundled is checked, the IDOC element in the generated Flat File Schema is a repeating element.
6. Click Finish.

If the generation of the Flat File Schema was successful, the Flat File Schema is shown in the Flat File Schemas folder of the Project tab.

**Parent topic:** [Flat File Schemas](#)

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## Using the Flat File Wizard

---

The Flat File Wizard creates a schema that defines the format of a flat file based on sample data that you provide. The **Read Flat File** activity uses this schema to convert flat files into an XML document.

For the best results, provide sample data that is like the actual data. For example, if the actual data contains header and footer rows, provide sample data with a header row for field names and footer rows. If the actual data contains quoted fields, the appropriate fields in the sample data should be quoted fields as well.

The Flat File Wizard only reads the first 1000 lines of a file. If the sample file contains more than 1000 lines and contains footer rows, remove lines before the footer rows so that the total line count stays within the 1000 line limit.

Important: All rows in your sample data must have the same number of fields.

**To use the Flat File Wizard:**

1. From the Studio menus select Project > Flat File Wizard. The Flat File Wizard opens in a tab in the Studio workspace.
2. Enter sample data into the Sample Data text box or click Browse... to load a sample file.
3. Click Next >. The File Format page opens.
4. Choose one of the file format options:
  - o Character-delimited format (including Comma Separated Values format) - Choose this option when each line in the file has a record with fields separated by a single character, such as a comma or tab.
  - o This file is in another format - Choose this option when your file does not meet the criteria of the previous file format option. If you select this option, you cannot use the Flat File Wizard to create a schema for your flat file.
5. Click Next >. The Field Delimiters page opens.
6. Select a field separator from the Fields separated by list. If you select Other:, specify the field separator in the field that displays to the right.
7. If the field is enclosed by a specific character, select the character that encloses the field from the Fields enclosed by list. If you select Other:, specify the enclosing character in the field that displays to the right.
8. Click Next >. The Header & Trailer page opens

9. Specify whether header and trailer rows exist:
  - a. Select Treat first row as header for field names, if a header row exists.
  - b. Select Treat last \_\_ row(s) as trailer, if a trailer row exists and specify the row number.
10. Click Next >. The Edit Schema Name page opens.
11. Enter a schema name.  
Tip: Choose a schema name that describes the data and file format.
12. Click Finish. In the Project tab of the Studio Toolbox, the flat file schema you just created displays in the Flat File Schemas directory.

**To read the flat file you created and convert it to XML:**

1. Add the Read Flat File activity to an orchestration.
2. In the Checklist, select Configure. The Configure pane opens.
3. In the Select a Flat File Schema field, specify the name of the flat file schema you have created. Â

Â **To convert XML data to a flat file:**

1. Add the Write Flat File activity to an orchestration.
2. In the Checklist, select Configure. The Configure pane opens.
3. In the Select a Flat File Schema field, specify the name of the flat file schema you have created.

**Parent topic:** [Flat File Schemas](#)

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## Mapping

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- [About Maps](#)

Maps define how data is transformed by the Integration Appliance during run time. Maps can reorganize data, convert data, suppress or add data, and performing calculations or other complex conversions.

- [Creating a map](#)

Create a map between the variables and the input parameter or between the output parameters and the variables.

- [Creating a Standalone Map](#)

A standalone map is visible in the Transformations folder of the Project tab and represents a set of one or more mappings between source and destination nodes.

- [Creating a Standalone Map from a Map Variables Activity](#)

- [Creating a Map Variables Activity from a Standalone Map](#)

- [Adding Variables to Mapping Panes](#)

You can add existing variables to a map or create new variables and add them to a map using the Select Inputs.. or Select Outputs... buttons available from the mapping panes of an activity.

- [Copying Parameters](#)

- [Replacing a Variable used in a Map](#)

- [Finding Nodes](#)

- [Assigning a Default Value for a Destination Node](#)

- [Mapping Techniques](#)

- [Automapping Matching Nodes](#)

- [Bulk Mapping Nodes](#)

- [Mapping Recurring Nodes](#)

- [Mapping All Occurrences](#)

- [Mapping Specific Occurrences](#)

- [Mapping Destination Nodes](#)

- [Selecting a substitution type](#)

The XML Schema specification supports the ability to derive complex types by extension.

- [Mapping Rules That Are Automatically Deleted](#)

- [Assigning a Count of Occurrences](#)

- [Removing Mapping Rules](#)

- [Finding Sample or Result Content](#)

- [Loading a Sample Message](#)

- [Testing maps](#)

You can test the transformation defined in a map using one or more sample messages that match the source schemas for the map.

- [Saving or Clearing the Transformation Result](#)

- [The Emit CData Option](#)

- [The Emit Only If Option](#)

- [Unsupported XML Schema Features](#)

- [About Unmapped Destination Nodes](#)

During transformations, the Integration Appliance includes all destination nodes in the result message. Destination nodes that are not mapped become empty nodes in the resulting message.

- [Filter Recurring Nodes](#)

By specifying an XPath predicate to filter against during run time, you can limit the recurring nodes returned by a mapping activity.

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## About Maps

---

Maps define how data is transformed by the Integration Appliance during run time. Maps can reorganize data, convert data, suppress or add data, and performing calculations or other complex conversions.

Maps can transform data from one or more sources to one or more destinations. For example, during run time a map can transform XML data valid against one XML Schema to XML data valid against another XML Schema. The XML Schemas and Flat File Schemas you use to define the source and destination nodes of a map must exist in the current project before you start creating a map. For more information about uploading an XML Schema or DTD to a project, see [Uploading Files into a Project](#). For more information about creating a Flat File Schema, see [Creating a flat file schema](#).

The following types of maps can be created in Studio:

- **Inline maps** - Inline or embedded maps are not visible in the Project tab. These maps are created automatically inline when you configure activities that contain Map Input and Map Output tasks, or when you configure a [Map Variables](#) activity. The source and destination types of an inline map are determined from the variables you select by clicking Add in the From Orchestrations and To Orchestrations panes of the Mapping Editor. Inline maps transform data from one or more source variables to one or more destination variables. The source and destination variables can be of any data type.

- **Standalone maps** - A standalone map is visible in the Transformations folder of the Project tab and represents a set of one or more mappings between source and destination nodes. You can create standalone maps by right-clicking the Transformations folder in the Project tab or from the Project > New > New Standalone Map toolbar menu option. For more information, see [Creating a Standalone Map](#). The source and destination types of an inline map are determined from the schema types you select by clicking Add in the From Orchestrations and To Orchestrations panes of the Mapping Editor.

You can also test a map against sample data, for more information see [Testing maps](#).

**Parent topic:** [Mapping](#)

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# Creating a map

Create a map between the variables and the input parameter or between the output parameters and the variables.

Many Studio activities contain inline or embedded maps that you must configure in the activity **Checklist**. You configure the inline maps in an activity in either the Map Inputs or Map Outputs tasks in an activity **Checklist**. In addition, configure an inline map in the Map Variables activity. The Mapping Editor is displayed beneath the orchestration.

For instructions about creating maps while configuring a Map Variables activity, see [Map Activity](#)

In addition to the inline maps that you create in the Map Inputs or Map Outputs tasks or when configuring a Map Variable activity, you can also create standalone maps. You can create an inline map in a Map Variables activity from a standalone map. For more information, see [Creating a Map Variables Activity from a Standalone Map](#).

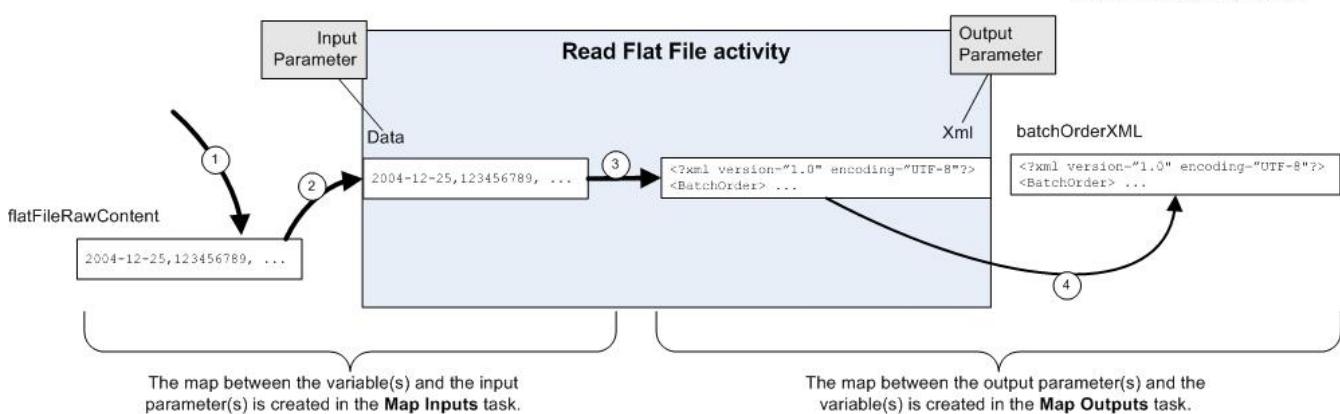
In the Map Inputs task, you map variable or variables from the orchestration (From Orchestration pane) to the input parameter or parameters of the activity (To Activity pane).

In the Map Outputs task, you map output parameters from the activity (the From Activity pane) to variable or variables of the orchestration (the To Orchestration pane).

During run time, an activity typically takes data from orchestration variable or variables manipulates the data in some way and returns the result in another set of variables as shown in the following figure:

Orchestration Variables

Orchestration Variables



The flow of data (from left to right) through the example activity (shown in the preceding figure) is described in the following steps:

1. In this case, the contents of the variable was supplied by the previous activity in the orchestration, the FTP Poll Directory activity. Comma separated values are stored in the *flatFileRawContent* variable by the FTP Poll Directory activity.
2. The contents of the *flatFileRawContent* variable is assigned to the input parameter called Data of the Read Flat File activity.
3. The Read Flat File activity converts the comma separated values to XML data and places the resulting data into the Xml output parameter.
4. The contents of the Xml output parameter is assigned to the *batchOrderXML* variable. The *batchOrderXML* variable is available in the orchestration. The next activity in the orchestration can use the contents of the *batchOrderXML* variable.

You can also manipulate the data in the maps between parameters and variables (created in the [Map Inputs](#) and [Map Outputs](#) task) using the functions available from the Functions tab. For more information see [Assigning Function\(s\) to a Mapping Rule](#).

The following activities require mapping:

- All connection activities that are listed under the following folders in the Activities tab:
  - Database
  - Email
  - FTP
  - HTTP
  - MQ
  - SAP
  - Web Services
- All the Transform activities that are listed under the Transform folder in the Activities tab.
- [Create Job Keys Activity](#)

- [Mapping Inputs](#)

When you map inputs, you are mapping from the orchestration (variables) to the activity (parameters).

- [Mapping Outputs](#)

When you map outputs, you are mapping from the activity (parameters) to the orchestration (variables). ^

**Parent topic:** [Mapping](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map\\_creating\\_a\\_map.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map_creating_a_map.html)

## Mapping Inputs

---

When you map inputs, you are mapping from the orchestration (variables) to the activity (parameters).

### About this task

---

To create a map between variables and input parameters:

### Procedure

---

1. Open or [create](#) an orchestration.
2. If the activity is mapping variables that conform to a particular XML Schema or DTD, [upload the XML Schema or DTD file into your project](#).
3. Click the activity in the orchestration that contains the Map Inputs task in the Checklist.
4. Select the Map Inputs task from the Checklist.
5. If not already selected, click Design. The Mapping Editor is displayed and the input parameters of the activity show in the To Activity pane.
6. [Add variables](#) to the From Orchestration pane.
7. Drag a source node from the From Orchestration pane to a destination node of an input parameter listed in the To Activity pane. If the mapping is valid, a link (line) displays from the source node to the destination node, indicating that a mapping rule has been established. Repeat this step until all the required nodes have been mapped. For more information, see the help topic for an activity to determine which nodes are required.  
Note: You can [find a node in a source or destination schema](#) using the Find dialog box.
8. Optional: [Assign Function\(s\) to a Mapping Rule](#).
9. If possible, [test](#) your mappings to ensure that the output is what you expect.  
Note: You can replace a variable used in the map without changing the links of the map. For more information, see [Replacing a Variable used in a Map](#).

### What to do next

---

You can show the optional input parameters of an activity using the Map > Show Optional Parameters toolbar menu option or hide the optional input parameters of an activity using the Map > Hide Optional Parameters toolbar menu option.

In addition, you can show or hide the optional input parameters of an activity by right-clicking in the To Activity pane and selecting the Show Optional Parameters to show the optional input parameters or selecting Hide Optional Parameters option to hide the optional input parameters. When the Show optional parameters option is set, the optional input parameters of an activity display in the To Activity pane of the Map Inputs pane with the prefix string: {optional}. If the Map > Show Optional Parameters option is not selectable in the toolbar menu, click a node in the Map Inputs pane to make this option active

**Parent topic:** [Creating a map](#)

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[Feedback](#) | [Notices](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map\\_creating\\_a\\_map\\_mapping\\_inputs.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map_creating_a_map_mapping_inputs.html)

## Mapping Outputs

---

When you map outputs, you are mapping from the activity (parameters) to the orchestration (variables). 

### About this task

---

To create a map between output parameters and variables:

### Procedure

---

1. Open or [create](#) an orchestration.
2. If the activity is mapping variables that conform to a particular XML Schema or DTD [upload the XML Schema or DTD file into your project](#).
3. Click the activity in the orchestration that contains the Map Outputs task in the Checklist.
4. Select the Map Outputs task from the Checklist.
5. If not already selected, click Design. The Mapping Editor is displayed and the output parameters of the activity show in the To Activity pane.
6. Add output variables to the To Orchestration pane:
  - o To add existing variables to the To Orchestration pane or create new variables, click [Select Outputs....](#)
  - o To create new variables and to automatically map those variables in the To Orchestration pane, click [Copy](#).
7. Drag a source node from the From Activity pane to a destination node of an input parameter listed in the To Orchestration pane. If the mapping is valid, a link (line) is displayed from the source node to the destination node, indicating that a mapping rule has been established. Repeat this step until all the required nodes have been mapped. In general, it is not a requirement that you map all the outputs from an activity.  
Note: You can [find a node in a source or destination schema](#) using the Find dialog box.
8. Optional: [Assign Function\(s\) to a Mapping Rule](#).
9. If possible, [test](#) your mappings to ensure that the output is what you expect.  
Note: You can replace a variable used in the map without changing the links of the map. For more information, see [Replacing a Variable used in a Map](#).

**Parent topic:** [Creating a map](#)

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## Creating a Standalone Map

---

A standalone map is visible in the Transformations folder of the Project tab and represents a set of one or more mappings between source and destination nodes.

### About this task

---

The set of source nodes available in the From Orchestration pane and destination nodes in the To Orchestration panes of the Mapping Editor are determined by the schema types defined for the source and destination variables of the map. A standalone map can be used to create any number of Map Variables activities in the same orchestration or in other orchestrations in the same project. For example, you could create a standalone map called `myMap` that contains a set of mappings between an source XML Schema called `IncomingOrder` and a destination XML Schema called `ShippingOrder`.

You can reuse this map by selecting the `myMap` entity from the Transformations folder in the Project tab and dropping it onto any orchestration in the project. This dropping action creates a new Map Variables activity in the orchestration with the same set of

mappings as defined for the map called `myMap`. The new inline map created for the Map Variables activity is a copy of parent standalone map. If you change the mappings between the source and destination nodes in `myMap`, the changes are not propagated to new Map Variables activity because it is a local copy. For more information see [Creating a Map Variables Activity from a Standalone Map](#).

To create a standalone map:

## Procedure

---

1. Create a new instance of a standalone map using one of the following options:
  - Select the Project tab, right-click on the Transformations folder, and select the New Standalone Map option from the menu.
  - From the toolbar menu, select the Project > New Standalone Map option.
  - In the Project tab, click New Standalone Map ().
- An instance of a standalone map shows in the Maps folder in the Project tab
2. Double-click the instance of the standalone map in the Transformations folder in the Project tab. The Mapping Editor opens in the lower part of the pane.
3. Select the source schemas.
4. Select the destination schemas
5. Drag a source node from the From Orchestration pane to a destination node in the To Orchestration pane. If the mapping is valid, a link (line) displays from the source node to the destination node, indicating that a mapping rule has been established. Repeat this step until all the required nodes have been mapped.  
Note: You can find a node in a source or destination schema using the Find dialog box. For more information about finding a node in a source or destination schema, see [Assigning Function\(s\) to a Mapping Rule](#).
6. Optional: Assign function or functions to a mapping rule. For more information, see [Assigning Function\(s\) to a Mapping Rule](#).
7. If possible, test your mappings to ensure that the output is what you expect. For more information about testing mappings, see [Testing maps](#).
  - Select source schemas for a standalone map
  - Select destination schemas for a standalone map

**Parent topic:** [Mapping](#)

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## Select source schemas for a standalone map

---

### Before you begin

---

Before you can select a schema or a fragment of the schema as a source schema for a map, you must first [upload the XML Schema or DTD file](#) that contains the schema into the Project or you must [create the Flat File Schema](#) that represents the Flat File data.

### About this task

---

To select the source schemas for a standalone map:

## Procedure

---

1. Click Add in the From Orchestration pane. The Browse For Schema Type Element dialog box shows.
2. Browse for the schema or schema fragment.
3. Select the schema or schema fragment and click OK. The schema or schema fragment is displayed in the From Orchestration pane.
4. Repeat these steps to add additional source schema or schema fragments to a map.

**Parent topic:** [Creating a Standalone Map](#)

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## Select destination schemas for a standalone map

---

### Before you begin

---

Before you can select a schema or a fragment of the schema as a destination schema for a map, you must first [Uploading Files into a Project](#) that contains the schema into the Project or you must [create the Flat File Schema](#) that represents the Flat File data.

### About this task

---

To select destination schemas for a standalone Map:

### Procedure

---

1. Click Add in the To Orchestration pane. The Browse For Schema Type Element dialog box is displayed.
2. Browse for the schema or schema fragment.
3. Select the schema or schema fragment and click OK. The schema or schema fragment is displayed in the To Orchestration pane.
4. Repeat these steps to add additional destination schema or schema fragments to a map.

**Parent topic:** [Creating a Standalone Map](#)

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## Creating a Standalone Map from a Map Variables Activity

---

### About this task

---

The following procedure provides instructions for creating a standalone map from a Map Variables activity. For more information about standalone maps and the inline map of a Map Variables activity, see [About Maps](#).

To create a standalone map from a **Map Variables** activity:

### Procedure

---

1. Select the Project tab.
2. Double-click an orchestration that contains the Map Variables activity, in the Orchestrations folder of the Project tab.
3. Drag the Map Variables activity from the orchestration into the Project tab. A new Map shows under the Transformations folder of the Project tab. New schemas might also be created when this new map is created.  
Important: The new standalone map is a copy of the map from the Map Variables activity. Changing the map in the Map Variables activity does not change the new standalone map. The converse is also true, changing the new standalone map does not change the map in the Map Variables activity.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Creating\\_a\\_Standalone\\_Map\\_from\\_a\\_Map\\_Variables\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Creating_a_Standalone_Map_from_a_Map_Variables_Activity.html)

## Creating a Map Variables Activity from a Standalone Map

---

### About this task

---

The following procedure provides instructions for creating a Map Variables activity from a standalone map. For more information about standalone maps and the inline map of a Map Variables activity, see [About Maps](#).

To create a **Map Variables** activity from a standalone map:

### Procedure

---

1. Select the Project tab.
2. Select the orchestration that you want to add the Map Variables activity to, by double-clicking the orchestration in the Orchestrations folder of the Project tab.
3. Drag a Map from the Transformations folder of the Project tab, onto the orchestration. The Link Schema Type to Variables dialog box opens.
4. For all the input and output schema types of the map, enter the name of an existing variable or a new variable in the Orchestration Variable field.
5. Click OK. The new Map Activity shows in the orchestration.  
**Important:** The new inline map created for the Map Variables activity is a copy of the standalone map in the Project tab. Changing the map in the Map Variables activity does not change the new standalone map. The converse is also true, changing the new standalone map does not change the map in the Map Variables activity.

Parent topic: [Mapping](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Creating\\_a\\_Map\\_Variables\\_Activity\\_from\\_a\\_Standalone\\_Map.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Creating_a_Map_Variables_Activity_from_a_Standalone_Map.html)

## Adding Variables to Mapping Panes

---

You can add existing variables to a map or create new variables and add them to a map using the **Select Inputs..** or **Select Outputs...** buttons available from the mapping panes of an activity.

### About this task

---

To add a variable using the **Select Inputs..** or **Select Outputs...** buttons:

### Procedure

---

1. Click an activity in the orchestration.

2. Select a mapping task from the **Checklist** for the activity. The mapping tasks of an activity are typically called Mapping Inputs or Mapping Outputs.
  3. To add variables:
    - o To add input variables to the map, click **Select Inputs...**
    - o To add output variables to the map, click **Select Outputs....**The Select Inputs or Select Outputs dialog box opens.
  4. Select from one of the following options:
    - o Add an existing variable to the mapping pane - Select an existing variable and click **OK**. The existing variable is added to the mapping pane.
    - o Add a new variable to the mapping pane - To add a new variable to the mapping pane:
      - a. Click **New**. The Create New Variables Step 1 of 2 dialog box opens.
      - b. Select a data type or schema to base the new variable:
        - For a variable based on a primitive data type:
          - i. Scroll to the end of the Create New Variables Step 1 of 2 dialog box.
          - ii. Select a primitive data type from the Primitive Types folder.
          - iii. Click **Next**.
        - For a variable based on a schema:
          - i. Optional: To search for a node by name, click **Find**.
          - ii. From the schema, select a node to be the root of the new variable.
          - iii. Click **Next**.
      - c. Enter a name for the new variable and click **Finish**. Click **OK**.
- The new variable is added to Variables toolbox, and the schema is displayed in the "Schema of" pane on the Variables tab. The new variable is also added to the mapping pane

**Parent topic:** [Mapping](#)

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## Copying Parameters

---

### About this task

Using the Copy button () available from the Map Outputs pane, you can create new orchestration variables that match the output parameters of the current activity.

To copy variables:

### Procedure

---

1. Click an activity in the orchestration.
2. Select the Map Outputs task from the Checklist for the activity. The mapping pane displays the output parameters of the current activity in the From Activity pane.
3. Click **Copy**. The Copy Parameters dialog box opens, containing a list of parameters matching those in the From Activity pane.
4. Click the output parameter or parameters to create variables from. The data type, schema, or schema fragment of the selected output parameter defines the data type, schema, or schema fragment of the new variable. To select more than one output parameter, press Shift while clicking the output parameters.
5. Click **Create**. The variables display in the To Orchestration pane. If required, rename the newly created variable to a more meaningful name. To rename the variable, double-click the variable in the blue section of the To Orchestration pane, enter the new name, and press **Return**.

**Parent topic:** [Mapping](#)

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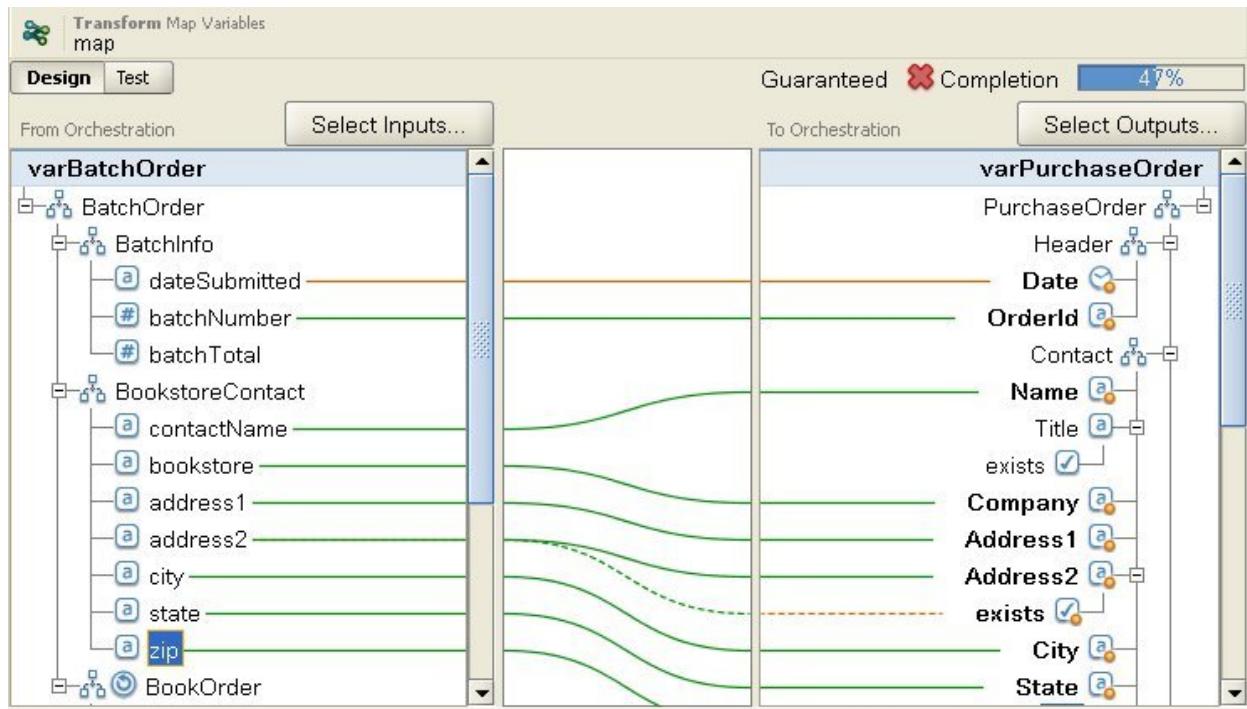
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map\\_Copying\\_Parameters.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map_Copying_Parameters.html)

## Replacing a Variable used in a Map

### About this task

You can change the variables used in the From Activity and To Orchestration panes without changing the links between source and destination nodes of a map.

For example, you could have a Map Variables activity that maps the nodes of the *varBatchOrder* variable to the nodes of the *varPurchaseOrder* variable as shown in the following figure.



The *varBatchOrder* variable is based on the BatchOrder XML Schema and the *varPurchaseOrder* variable is based on the PurchaseOrder XML Schema.

If you wanted another Map Variables activity in your orchestration maps source and destination nodes but you wanted to use a different set of variables. You could copy the original Map Variables activity and then paste the new Map Variables activity into the orchestration and then change the variables used in the map without changing the links of the map.

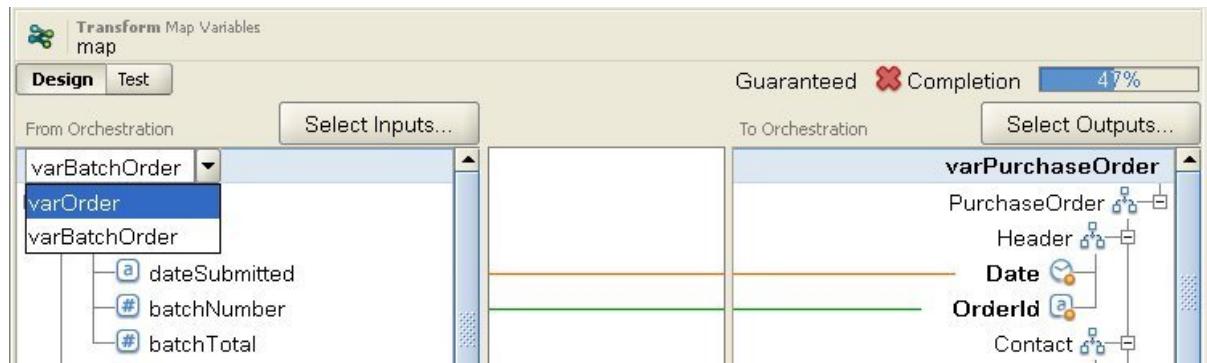
To replace an original variable used in a map:

### Procedure

1. Click the Map Variables activity or the Map Inputs or Map Outputs tasks of an activity.
2. Create a new variable or replace a source or destination variable:
  - o Double-click the blue area where the variable is listed in the From Activity, From Orchestration, To Activity, or To Orchestration panes and enter the name of the variable. A new variable of the same schema type is created.
  - o Replace a source or destination variable using one of the following actions:
    - Right-click the blue area where the variable is listed in the From Activity, From Orchestration, To Activity, or To Orchestration panes and select the Choose Another Variable option from the list.
    - Double-click the blue area where the variable is listed in the From Activity, From Orchestration, To Activity, or To Orchestration panes.

An arrow shows to the right of the variable name as shown in the following figure.

Select another variable from the list. Â For this example, select the varOrder variable from the list.



Note: You can only change the variables used in Map Input and Map Output panes and not the parameters that are used in a map. For example in the FTP Poll Directory activity, the filename, data, and timestamp input parameters located in the From Activity pane of the Map Outputs task cannot be changed but the variables that the parameters map to in the To Orchestration pane can be changed.

**Parent topic:** [Mapping](#)

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## Finding Nodes

---

### About this task

You can search for nodes in the mapping panes of activities as described in the following procedure.

To find nodes:

### Procedure

---

1. Open the mapping pane containing the node you want to search for.
2. Open the Find dialog box using one of the following options:
  - o Right-click either the source pane or the destination pane and select Find. The Find dialog box opens.
  - o Click a node in either the source pane or the destination pane. Select Edit > Find from the Studio toolbar menu. The Find dialog box opens.
3. Enter the name of the node that you want to search for in the Text to find field.
4. Select any options or change the direction of the search:
  - o Case Sensitive - Exactly matches the case of the text entered in the Text to find field.
  - o Whole Words Only - Matches the search text only as whole words. No partial matches are allowed.
  - o Wrap Search - Continues searching through the entire schema regardless of where the search was started.
  - o Forward - Searches from the root node or current node down through the schema in node-tree order.
  - o Backward. Searches from the last node in the tree or the current node up through the schema in reverse node-tree order.
5. Click Find. Click Find again to continue the search through the schema.
6. Click Cancel to close the dialog box.

**Parent topic:** [Mapping](#)

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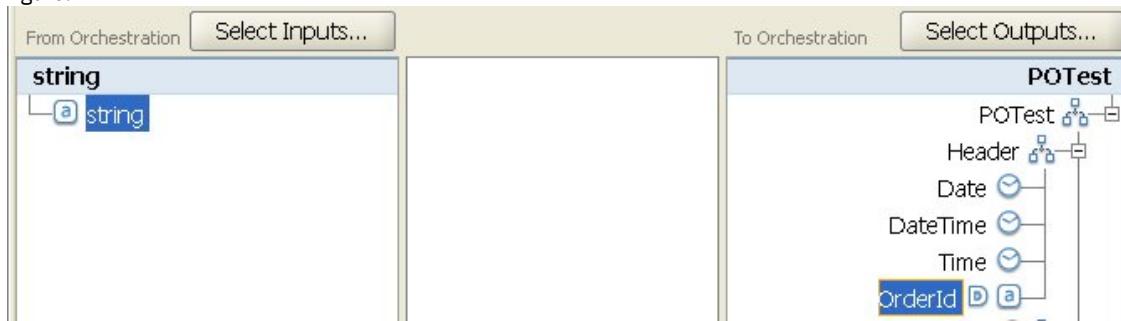
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map\\_Finding\\_Nodes.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map_Finding_Nodes.html)

## Assigning a Default Value for a Destination Node

### About this task

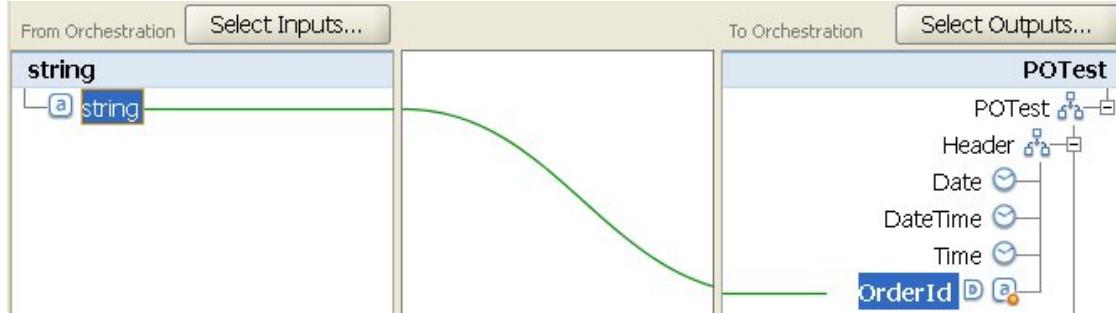
You can assign a default value for a destination node in a map. A destination node of a map is displayed in the mapping pane. The following figure shows the To Orchestration pane. How the default value is used during run time depends if a link is assigned to the destination node as described in the following cases:

- Define a default value for a destination node that does not have a link from a source node or function as shown in the following figure:



For this case, the specified constant value is always assigned to the destination node during run time.

- Define a default value for a destination node that has a link from a source node or function as shown in the following figure:



For this case, the specified value is only assigned to the destination node, if the link from the source node or a function to the destination node does not provide a value for the destination node during run time. Â

You can also use configuration properties to supply the default values for destination nodes of a map of a mapping pane as described in step 2 of the following procedure. You must [create the configuration property](#) before defining the default value as described in the following procedure.

To define a default value for a destination node:

### Procedure

1. Right-click a destination node within the mapping pane. The name of the pane within the mapping pane depends on the type of map you are currently configuring as described in the following list:
  - While configuring a Map Inputs task of an activity, the destination nodes of a map show in the To Activity pane.
  - While configuring a Map Outputs task of an activity, the destination nodes of a map show in the To Orchestration pane.
  - While configuring a stand-alone map or a Map Variables activity, the destination nodes of a map show in the To Orchestration pane.
2. Select the Define Default Value option from the list. The Define Default Value dialog box opens. If any configuration properties have been defined for the project, the icon shows in the right of the Default Value field.
3. In the Default Value field, define the default value using one of the following options:
  - Directly enter the characters that define the default value.

- Select a configuration property to supply the default value by clicking the  icon and selecting a configuration property from the list.
4. Click OK. The default () icon shows next to the destination node in the mapping pane.

## What to do next

---

To clear the default value for a destination node:

1. Right-click a destination node with a default value assigned to the node within the mapping pane. A destination node with a value assigned shows the default () icon to the left of the node.
2. Select the Define Default Value option from the list. The Define Default Value dialog box opens with the text or the selected configuration property highlighted.
3. Press the Delete key.
4. Click OK. The default () icon is removed from the destination node in the mapping pane.

**Parent topic:** [Mapping](#)

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## Mapping Techniques

---

### About this task

---

You can map from Source nodes to Destination nodes in various ways, depending on how your mapping is set up. You can:

- Map from one Source node to one Destination node
- Map from multiple Source nodes to one Destination node
- Map from one Source node to multiple Destination nodes
- Conditional Mapping for a Recurring Node
- [Mapping One Source to One Destination](#)
- [Mapping Multiple Sources to One Destination](#)
- [Mapping One Source to Multiple Destinations](#)
- [Conditional Mapping for a Recurring Node](#)

**Parent topic:** [Mapping](#)

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## Mapping One Source to One Destination

---

### About this task

---

To map from one Source node to one Destination node:

### Procedure

---

1. Open the Mapping Editor.
  2. Drag a Source node onto a Destination node. The Mapping Editor draws a link between the nodes and marks the destination node as mapped.
- Note: You may receive a validation warning if this mapping rule is not guaranteed or is not allowed.

**Parent topic:** [Mapping Techniques](#)

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## Mapping Multiple Sources to One Destination

---

### About this task

You cannot map several source nodes to a single destination node unless you use functions to define how the source data should be combined. For example, you can use the [Concatenate](#) function to combine several source nodes with string datatypes.

See [Assigning Function\(s\) to a Mapping Rule](#) for more information.

**Parent topic:** [Mapping Techniques](#)

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## Mapping One Source to Multiple Destinations

---

### About this task

To map from one Source node to multiple Destination nodes:

### Procedure

1. Open the Mapping Editor.
2. Drag a Source node onto each Destination node you want to map.

**Parent topic:** [Mapping Techniques](#)

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# Conditional Mapping for a Recurring Node

---

## About this task

---

To map from one Source node to multiple Destination nodes:

## Procedure

---

1. Right-click the element or variable in the recurring node for which you want a conditional mapping. The Select Occurrence pane opens.
2. Enter the code for the condition.
3. Click OK.

**Parent topic:** [Mapping Techniques](#)

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# Automapping Matching Nodes

---

Automapping quickly maps source nodes to matching destination nodes. Matching is ‘fuzzy’ and ignores differences in case or punctuation. It does not match nodes that are at different levels within the structure or have differences such as abbreviations in names.

- To automap, select Map > Automap from the toolbar. The Mapping Editor draws mapping rules for each matching node that it finds.

The Mapping Editor also displays warnings for any mapping rules that it attempts to create that are not guaranteed.

**Parent topic:** [Mapping](#)

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# Bulk Mapping Nodes

---

## About this task

---

Bulk mapping can quickly map similar structures, such as addresses, that use similar or identical names and organization. Matching is ‘fuzzy’ and ignores differences in case or punctuation. It does not match nodes that are at different levels within the structure or have differences such as abbreviations in names.

Bulk mapping is applied to structure nodes that you identify in the Source and Destination.

To bulk map a structure node:

## Procedure

---

1. Right-click a structure node in the Source tree displayed in the Mapping Editor.
  2. Select Map > Create Bulk Mapping Rules from the menu toolbar.
  3. Drag a Source structure node onto a Destination structure node. The Mapping Editor draws mapping rules for each matching node that it finds within the structures you have selected.
- Note: Bulk mapping removes any existing mapping rules for the Destination structure you select.

**Parent topic:** [Mapping](#)

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## Mapping Recurring Nodes

---

### About this task

Mapping rules for recurring nodes can:

- Determine the output for all occurrences
- Determine the output for specific occurrences
- Reconcile cardinality issues, such as different minimum occurrences or source and destination schemas that model recurring structures with different levels or no recurrence.

How you map recurring nodes is determined by the recurring relationships in your source and destination schemas, as outlined in the following table.

Source	Destination	Action to take
Not recurring	Recurring	Expand the destination node to map the source nodes to specific destination node occurrences.
Recurring	Not recurring	Select specific occurrences of the source and map them to the destination.
Matching Recurring Levels	Matching Recurring Levels	Map all occurrences or select/expand specific occurrences if you need to.
More Recurring Levels	Fewer Recurring Levels	Select specific occurrences of the source nodes and map them to specific occurrences of the destination. See the discussion on mapping limitations for recurring nodes in the Getting Started Guide for more information.
Fewer Recurring Levels	More Recurring Levels	Expand specific occurrences of the additional recurring levels of the destination nodes and map the source levels within the expanded destination nodes.

For more information on recurring nodes and how to limit the recurring nodes returned by a mapping activity, see [Filter Recurring Nodes](#).

**Parent topic:** [Mapping](#)

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# Mapping All Occurrences

---

## About this task

---

You can map all occurrences of a recurring source node to a recurring destination node as long as the nested levels of recurrence match or you have specified how any uneven levels should be handled.

To map all occurrences of a recurring source node:

- Drag a node in the Source tree to the appropriate node in the Destination tree. The Mapping Editor automatically creates mapping rules linking the Source occurrence nodes to the matching Destination occurrence nodes

Note: If the levels of recurrence in the source and destination schema trees do not match, you must [map specific occurrences](#) instead.

**Parent topic:** [Mapping](#)

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# Mapping Specific Occurrences

---

## About this task

---

When the recurring levels in the Source tree do not match those in the Destination tree, you must expand the recurring nodes and define mapping rules for specific occurrences to resolve cardinality differences:

- When source tree recurring levels are greater than destination tree levels, Select Source Occurrences
- When source tree recurring levels are less than destination tree levels, Expand Destination Occurrences

In addition, the following functionality is available for a recurring destination node that has already been expanded:

- Collapse Destination Occurrences - Removes all the occurrences of a recurring destination node, leaving just the recurring destination node.
- Add Destination Occurrence - Adds a single occurrence of a recurring destination node.
- Remove Destination Occurrence - Removes the selected occurrence.
- [Select Source Occurrences](#)
- [Expand Destination Occurrences](#)
- [Collapse Destination Occurrences](#)
- [Add destination occurrence](#)
- [Remove Destination Occurrence](#)
- [Select a substitution type in a mapping pane](#)

**Parent topic:** [Mapping](#)

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# Select Source Occurrences

---

## About this task

---

To select source occurrences:

### Procedure

---

1. Open a mapping pane and right-click the source node that you want to map.
2. Select Select One Occurrence from the list. The Select One Occurrence dialog box opens.
3. This dialog box displays the path to the source node you have chosen with an occurrence property for each recurring level.  
Select the number of occurrences to use at each recurring level.
4. Click OK. The source node is highlighted in red in the Mapping Editor.
5. Select the source node and drag it onto the destination node to complete the mapping.

**Parent topic:** [Mapping Specific Occurrences](#)

---

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## Expand Destination Occurrences

---

### About this task

---

To expand destination occurrences:

### Procedure

---

1. Right-click the recurring (⌚) destination node in the mapping panes of activities. Destination nodes are located on the right side of mapping panes.
2. Select Expand Occurrences from the list
3. In the Expand Occurrences dialog box, specify the number of occurrences that you want to expand and map to explicitly. You can map to both the recurring node and the explicit occurrences.
4. Select a setting for the Before check box:
  - Select the Before check box if you want the set of single occurrences to show in the map before the set of recurring nodes.
  - Clear the Before check box if you want the set of single occurrences to show in the map after the set of recurring nodes.
5. Click OK. The specified number of occurrences shows for the selected recurring destination node.
6. Map to the expanded destination nodes as needed, treating each set as one occurrence of that structure.

You can specify the [substitution type](#) for an expanded occurrence of a recurring destination node. This [type substitution](#) of an expanded occurrence is only supported for the recurring destination nodes. Destination nodes are located on the right side of mapping panes.

**Parent topic:** [Mapping Specific Occurrences](#)

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# Collapse Destination Occurrences

---

## About this task

---

To collapse destination occurrences:

Attention: Collapsing destination occurrences removes all the current mappings for all of the expanded occurrences.

## Procedure

---

1. Open a mapping pane and right-click the recurring destination node or any occurrence of a recurring destination node.  
Destination nodes are located on the right side of mapping panes.
2. Select Collapse Occurrences from the list.
3. Click OK.

**Parent topic:** [Mapping Specific Occurrences](#)

---

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# Add destination occurrence

---

## About this task

---

To add an occurrence to a destination node with existing expanded occurrences:

## Procedure

---

1. Open a mapping pane and right-click the recurring destination node or any occurrence of a recurring destination node.  
Destination nodes are located on the right of the mapping panes.
2. From the list, select one of the following options (if available) from the Add New Occurrence menu option:
  - Add New Occurrence > After - Select this option if you want add the new occurrence after the currently selected destination occurrence.
  - Add New Occurrence > Before - Select this option if you want add the new occurrence before the currently selected destination occurrence.
3. Click OK.

You can specify the substitution type for an expanded occurrence of a recurring destination node. This type substitution of an expanded occurrence is only supported for the recurring destination nodes. Destination nodes are located on the right of the mapping panes.

**Parent topic:** [Mapping Specific Occurrences](#)

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# Remove Destination Occurrence

---

## About this task

To remove a destination occurrence:

### Procedure

1. Open a mapping pane and right-click the recurring destination node or any occurrence of a recurring destination node.  
Destination nodes are located on the right of the mapping panes.
2. From the list, select the Remove Selected Occurrence menu option. A Confirmation dialog box opens.
3. Click Yes.

**Parent topic:** [Mapping Specific Occurrences](#)

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## Select a substitution type in a mapping pane

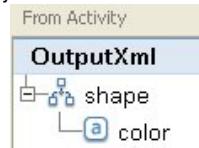
### About this task

To select a substitution type in a mapping pane:

### Procedure

1. [Upload an XML Schema](#) that contains an XML element based on derived types into the project.
2. In an activity that uses an XML Schema, select the node representing the XML element that is based on a derived type for the input or output parameter of the activity.

For example, the Read XML activity uses an XML Schema to define the output parameter of the activity. In the Configure task of the Checklist for the Read XML activity, select an XML variable that defines the node of the XML Schema to use the output parameter. Using example XML Schema shown in the preceding figure, a variable based on the `<shape>` element can be used to define the node of the XML Schema to use as the output parameter of the Read XML activity. Since the derived type for the `<shape>` element is not selected, only the child element (named color) of the base type are displayed in the From Activity

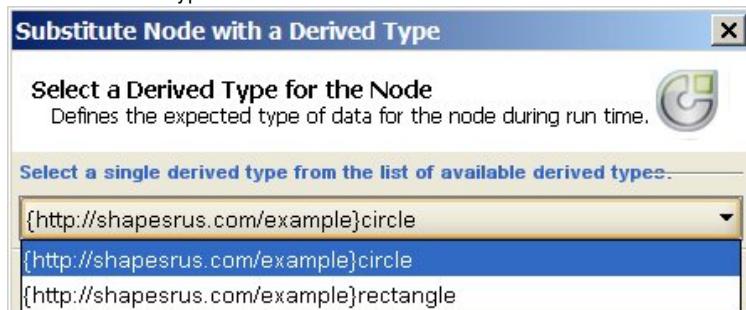


pane as shown in the following figure:

Note that the child elements of the derived types are not listed in the mapping pane. In this example, the child element of circle which is named diameter is not listed, nor are the child elements of rectangle which are named width and length.

3. In the From Activity and To Orchestration panes of an activity, select the derived type expected during run time, by right-clicking on the node and from the menu selecting the Substitute Node With ... option. The Substitute Node with a Derived Type dialog box open the menu, the available derived types for the node as defined by the XML Schema are listed. For this example,

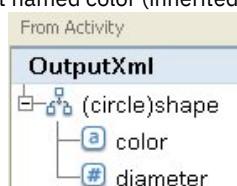
the two derived types are available from the menu as shown in the following figure:



4. Select one of the derived types. The selected derived type determines the expected type of XML instance document during run time.

In this example, the circle derived type is selected, so the XML data expected for this node during run time is of type circle as shown in the XML instance document displayed at the top of this page.

In addition to the child elements of the base type, the child elements of the derived type show in the mapping panes. In this example, the child element named diameter is displayed with the child element named color (inherited from the base type) in



the From Activity pane of the Read XML activity as shown in the following figure:

[Parent topic: Mapping Specific Occurrences](#)

[Parent topic: Selecting a substitution type](#)

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## [Mapping Destination Nodes](#)

---

When you map a destination node, you indicate the data source used to complete the node and create a mapping rule. Mapping rules provide data to a destination node in various ways, as described in the following topics.

### [From source nodes](#)

---

Mapping from a source node to a destination node creates a link between them. This is the most common way to define a mapping rule. There are several ways to link source and destination nodes as described in these topics:

[Mapping Techniques](#)

[Mapping Recurring Nodes](#)

[Automapping Matching Nodes](#)

[Bulk Mapping Nodes](#)

### [By assignment](#)

---

Mapping by assignment means that you provide a default value or use functions to determine the value of the destination node. See [Assigning a Default Value for a Destination Node](#) and [Assigning a Function Without a Source Node Link](#) for more information.

## Using a combination of source nodes and functions

---

Mapping using a combination of source nodes and functions refers to manipulating the link between source and destination nodes with functions to convert data, calculate or assign data. See the [Assigning Function\(s\) to a Mapping Rule](#) for details

**Parent topic:** [Mapping](#)

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## Selecting a substitution type

---

The XML Schema specification supports the ability to derive complex types by extension.

In the XML instance document, you declare the type of an XML element from a set of types that are all derived from the same base type, rather than explicitly declaring the type for the XML element in the XML Schema. The type for the element is defined using the type attribute as shown by the following example XML instance document:

```
<?xml version="1.0" encoding="UTF-8"?>
<shape xmlns="http://shapesrus.com/example"
       xmlns:xsd="http://www.w3.org/2001/XMLSchema-instance" xsd:type="circle">
  <color xmlns="">blue</color>
  <diameter xmlns="">10</diameter>
</shape>
```

In the preceding XML instance document, the `<shape>` element is declared as a `circle` type. The `<shape>` element in the XML instance document can also be defined as a `rectangle` type as defined in the following example XML instance document:

```
<?xml version="1.0" encoding="UTF-8"?>
<shape xmlns="http://shapesrus.com/example"
       xmlns:xsd="http://www.w3.org/2001/XMLSchema-instance" xsd:type="rectangle">
  <color xmlns="">blue</color>
  <length xmlns="">5</length>
  <width xmlns="">8</width>
</shape>
```

In this example, the `<shape>` element is based on one of the derived types of `shapeType` base type. The derived types of `shapeType` are named `circle` and `rectangle`, as shown in the following example XML Schema:

```

<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    targetNamespace="http://shapesrus.com/example"
    xmlns:sru="http://shapesrus.com/example">

    <xsd:element name="shape" type="sru:shapeType"/> } Defines an element
    based on one of the
    derived types of
    shapeType.

    <xsd:complexType name="shapeType" abstract="true"> } Base type
        <xsd:sequence>
            <xsd:element name="color" type="xsd:string"/>
        </xsd:sequence>
    </xsd:complexType> named
                        shapeType.

    <xsd:complexType name="circle">
        <xsd:complexContent>
            <xsd:extension base="sru:shapeType">
                <xsd:sequence>
                    <xsd:element name="diameter" type="xsd:integer"/>
                </xsd:sequence>
            </xsd:extension>
        </xsd:complexContent>
    </xsd:complexType> } Derived type
                        named
                        circle that
                        extends the
                        base type
                        named
                        shapeType.

    <xsd:complexType name="rectangle">
        <xsd:complexContent>
            <xsd:extension base="sru:shapeType">
                <xsd:sequence>
                    <xsd:element name="length" type="xsd:integer"/>
                    <xsd:element name="width" type="xsd:integer"/>
                </xsd:sequence>
            </xsd:extension>
        </xsd:complexContent>
    </xsd:complexType> } Derived type
                        named
                        rectangle
                        that extends
                        the base
                        type named
                        shapeType.

</xsd:schema>

```

When an XML Schema defines an XML element based on derived types, you must specify the derived type (or substitution type) expected for the XML element during run time. For the preceding example XML Schema, you must specify the type of the `<shape>` element — either `circle` or `rectangle`. In Studio, you specify the expected substitution type of an XML element using the Substitute Node With ... menu option:

- For a variable based on a substitution type - Select the expected type of the XML element by right-clicking the node in the Schema of pane in the Variables tab and by selecting the Substitute Node With ... option from the menu. For more information see [Selecting a Substitution Type for Variables](#).
- For a node based on substitution type in a mapping pane - Select the expected type of the XML element by right-clicking the node in the Schema of pane in the Variables tab and by selecting the Substitute Node With ... option from the menu, as described in the following procedure.

In the preceding example XML Schema, the base type called `<shapeType>` is defined as abstract. An abstract base type cannot be used in the XML instance document to define the type for the element - one of the derived types must be specified instead. In this example, the `<shape>` element in the XML instance document cannot be declared as `shapeType`, it must be declared as one of the derived types; either `circle` or `rectangle`.

In the preceding example, the base type is defined as abstract but type substitution of derived types based on a base type that is not abstract is also supported. To make the complexType called `shapeType` not abstract in the example XML Schema, remove the `abstract=true` attribute as shown in the following XML Schema segment:

```

<xsd:complexType name="shapeType">
    <xsd:sequence>
        <xsd:element name="color" type="xsd:string"/>
    </xsd:sequence>
</xsd:complexType>

```

A WSDL is a specific XML Schema that defines a Web Service. Using type substitution with a WSDL is also supported.

You can specify the substitution type for an [expanded occurrence](#) of a recurring destination node. This type substitution of an expanded occurrence is only supported for the recurring destination nodes. Destination nodes are located on the right side of

mapping panes.

Attention: Type substitution of complex types is supported in the mapping panes of activities and for variables. However, deriving elements by extension using substitution groups is not supported in the mapping panes of activities or for variables. For more information, see [Unsupported XML Schema Features](#).

## Example XML Schema

---

The example XML Schema used in this topic is provided for reference:

```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  targetNamespace="http://shapesrus.com/example"
  xmlns:sru="http://shapesrus.com/example">
  <xsd:element name="shape" type="sru:shapeType"/>
  <xsd:complexType name="shapeType" abstract="true">
    <xsd:sequence>
      <xsd:element name="color" type="xsd:string"/>
    </xsd:sequence>
    </xsd:complexType>
    <xsd:complexType name="circle">
      <xsd:complexContent>
        <xsd:extension base="sru:shapeType">
          <xsd:sequence>
            <xsd:element name="diameter" type="xsd:integer"/>
          </xsd:sequence>
        </xsd:extension>
      </xsd:complexContent>
    </xsd:complexType>
    <xsd:complexType name="rectangle">
      <xsd:complexContent>
        <xsd:extension base="sru:shapeType">
          <xsd:sequence>
            <xsd:element name="length" type="xsd:integer"/>
            <xsd:element name="width" type="xsd:integer"/>
          </xsd:sequence>
        </xsd:extension>
      </xsd:complexContent>
    </xsd:complexType>
  </xsd:complexType>
</xsd:schema>
```

- Select a substitution type in a mapping pane
- Remove the Derived Type Associated with a Node

**Parent topic:** [Mapping](#)

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## Select a substitution type in a mapping pane

---

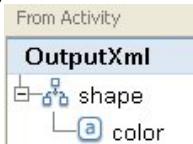
### About this task

To select a substitution type in a mapping pane:

### Procedure

1. [Upload an XML Schema](#) that contains an XML element based on derived types into the project.
2. In an activity that uses an XML Schema, select the node representing the XML element that is based on a derived type for the input or output parameter of the activity.

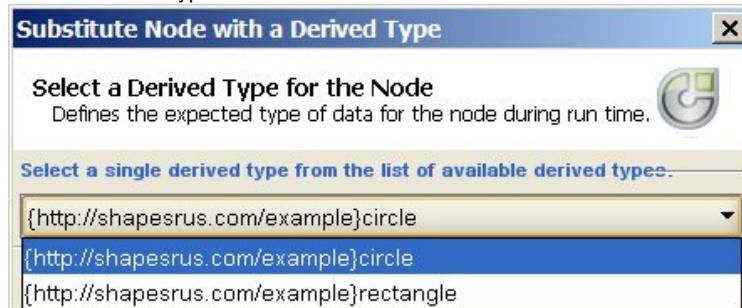
For example, the Read XML activity uses an XML Schema to define the output parameter of the activity. In the Configure task of the Checklist for the Read XML activity, select an XML variable that defines the node of the XML Schema to use as the output parameter. Using example XML Schema shown in the preceding figure, a variable based on the `<shape>` element can be used to define the node of the XML Schema to use as the output parameter of the Read XML activity. Since the derived type for the `<shape>` element is not selected, only the child element (named color) of the base type are displayed in the From Activity pane as shown in the following figure:



pane as shown in the following figure:

Note that the child elements of the derived types are not listed in the mapping pane. In this example, the child element of circle which is named diameter is not listed, nor are the child elements of rectangle which are named width and length.

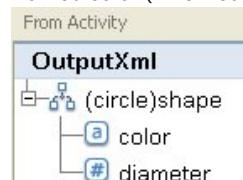
3. In the From Activity and To Orchestration panes of an activity, select the derived type expected during run time, by right-clicking on the node and from the menu selecting the Substitute Node With ... option. The Substitute Node with a Derived Type dialog box open the menu, the available derived types for the node as defined by the XML Schema are listed. For this example, the two derived types are available from the menu as shown in the following figure:



4. Select one of the derived types. The selected derived type determines the expected type of XML instance document during run time.

In this example, the circle derived type is selected, so the XML data expected for this node during run time is of type circle as shown in the XML instance document displayed at the top of this page.

In addition to the child elements of the base type, the child elements of the derived type show in the mapping panes. In this example, the child element named diameter is displayed with the child element named color (inherited from the base type) in



the From Activity pane of the Read XML activity as shown in the following figure:

**Parent topic:** [Mapping Specific Occurrences](#)

**Parent topic:** [Selecting a substitution type](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map\\_Selecting\\_a\\_Substitution\\_Type\\_in\\_a\\_Mapping\\_Pane.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map_Selecting_a_Substitution_Type_in_a_Mapping_Pane.html)

## Remove the Derived Type Associated with a Node

### About this task

To remove the derived type associated with a node:

## Procedure

---

1. Once a derived type has been selected for a node using the Substitute Node With ... option, you can remove the association between the node and the derived type by right-clicking the node and selecting the Unsubscribe Node option from the menu. A Unsubscribe dialog box opens.
2. Click Yes.

**Parent topic:** [Selecting a substitution type](#)

---

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map\\_Selecting\\_a\\_Substitution\\_Type\\_Remove\\_Derived\\_Type.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map_Selecting_a_Substitution_Type_Remove_Derived_Type.html)

## Mapping Rules That Are Automatically Deleted

---

When you open a map, the Mapping Editor automatically deletes mapping rules from the map in two cases:

### Case 1: One or both of the XML Schemas that the map refers to have been changed.

---

Schemas can change due to changes in the connection activities or message definitions they are generated from. Schemas that you add to the project can also be edited directly.

Note: The warning message from the Mapping Editor lists the mapping rules that were deleted. This list might also include rules for property nodes, such as `ihmap:exists` for the optional property node.

Review the map and recreate or alter mapping rules to handle the schema changes properly.

### Case 2: One of the XML Schemas that the map refers to has been deleted from the project.

---

In this case, the Mapping Editor deletes all mapping rules, and the map cannot be recreated. Close the map and delete it from the project.

**Parent topic:** [Mapping](#)

---

[Feedback](#) | [Notices](#)

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## Assigning a Count of Occurrences

---

### About this task

---

You can assign a value to a destination node that counts the actual occurrences in a message of a specific recurring node.

To assign a count of occurrences:

## Procedure

---

1. Drag the Count function from the Functions tab to the Function Graph pane in the Mapping Editor.
2. Link the recurring node that should be counted to the Count function.  
Note: Count works with any recurring node, including recurring structure nodes.
3. Link the Count function to the destination node.

**Parent topic:** [Mapping](#)

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[Feedback](#) | [Notices](#)

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## Removing Mapping Rules

---

### About this task

---

You can remove one mapping rule or all mapping rules as outlined in the following sections.

- [Removing mapping rules with links](#)
- [Removing mapping rules with no visible links](#)
- [Remove All Mapping Rules](#)

**Parent topic:** [Mapping](#)

---

[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map\\_Removing\\_Mapping\\_Rules.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map_Removing_Mapping_Rules.html)

## Removing mapping rules with links

---

### About this task

---

To remove a mapping rule that has a link from source to destination node:

### Procedure

---

Delete the mapping rule in one of the following ways:

- Select the link for the mapping rule and press Delete.
- Right-click the link and select Delete Mapping.

### Results

---

The Mapping Editor prompts you to confirm the removal if the mapping rule you select links occurrence property nodes. Removing occurrence mapping rules also removes all the mapping rules for descendant nodes within that recurring structure.

**Parent topic:** [Removing Mapping Rules](#)

---

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## Removing mapping rules with no visible links

---

### About this task

Mapping rules can have no visible link if they use only functions or a default value.

To remove mapping rules with no links:

### Procedure

1. Select the destination node and right-click.
2. Select one of these options:
  - a. Define Default Value. If the node has a default assigned. Remove the default value in the Default Value window and click OK.
  - b. Edit Function Graph. If the node has a function graph assigned. Once the function graph is expanded, right-click the function and select Delete Mapping.

**Parent topic:** [Removing Mapping Rules](#)

---

[Feedback](#) | [Notices](#)

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## Remove All Mapping Rules

---

### About this task

### Procedure

1. Select Map > Clear Map from the menu toolbar.
2. Confirm the deletion when prompted.

**Parent topic:** [Removing Mapping Rules](#)

---

[Feedback](#) | [Notices](#)

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## Finding Sample or Result Content

---

### About this task

You can search the sample messages or the test result to find specific nodes or content:

## Procedure

---

1. Open the Mapping pane containing the node you want to search for and click Test.
2. Right-click either the Selected Test Files pane or the Test Result pane and select Find from the shortcut menu.
3. Enter the text that you want to search for in the Text to find field.
4. Select any options or change the direction of the search:
  - o Case Sensitive - Exactly matches the case of the text entered in the Text to find field.
  - o Whole Words Only - Matches the search text only as whole words. No partial matches are allowed.
  - o Wrap Search - Continues searching through the entire schema regardless of where the search was started.
  - o Forward - Searches from the root node or current node down through the schema in node-tree order.
  - o Backward. Searches from the last node in the tree or the current node up through the schema in reverse node-tree order.
5. Click Find. Click Find again to continue the search through the schema.
6. Click Cancel to close the dialog box.

**Parent topic:** [Mapping](#)

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## Loading a Sample Message

---

### About this task

---

It is recommended that you test the mapping rules you set up in the Mapping Editor before mapping the next activity in your orchestration. You do this by loading a sample message into the project and testing against it to verify that the mapping rules are applied correctly.

To load a sample message into the project:

## Procedure

---

1. Click Test. The Test Files pane opens.
2. In the Find Test Files pane, click Browse and search for the message you want to load.
3. Select the XML file to use as a sample message in the window and click OK.

If the sample is valid, it displays in the Selected Test Files pane. If there are several source schemas for this map, test files are displayed in source schema order.

4. If the map uses several source schemas, you can load sample messages for other source schemas before you test the transformation. Repeat steps 2 and 3 for each sample you want to test

**Parent topic:** [Mapping](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map>Loading\\_a\\_Sample\\_Message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map>Loading_a_Sample_Message.html)

# Testing maps

---

You can test the transformation defined in a map using one or more sample messages that match the source schemas for the map.

## About this task

---

To test a map:

## Procedure

---

1. Click Test from either the Map Inputs or Map Outputs pane. The Test pane is displayed. The variables or parameters that show in the Select Input Test Files table depend on the type of task:
  - o In the Test pane of a **Map Inputs** task, the variables that are mapped to the input parameters of the activity are displayed in the Select Input Test Files table.
  - o In the Test pane of a **Map Outputs** task, input parameters of the activity are displayed in the Select Input Test Files table.
2. Get sample data to use as input to the map, using one of the following options:
  - o Generate sample data - To generate sample XML data valid against the source schema, select the Map > Generate Test Data from the toolbar menu.
  - o Import sample data from files - For each parameter in the Find Test Files list, click [...] to [browse for a sample message](#) from your computer or a network drive. The selected message is displayed in the Selected Test Files table.  
Note: The sample message must be valid XML that meets the requirements defined in the source XML Schema for the map. If the map uses several source schemas, you can load a sample message for any or all of the schemas.
3. Click Run Test. The transformation defined in your map is run against the sample message you specified in the Location column. The result of the transformation is displayed in the Test Result pane.

## What to do next

---

Either [save the transformation result](#), or [clear](#) it from the Mapping Editor panes.

**Parent topic:** [Mapping](#)

---

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# Saving or Clearing the Transformation Result

---

## About this task

---

You can save the result of the map test to a file on your computer or a network drive. This can be useful if you would like to review the result using XML tools outside of Studio. It can also be useful if the result of the transformation is input to another activity, such as a message definition or another map.

To save the result of a map test:

## Procedure

---

1. Test your mapping. For more information, see [Testing maps](#).
2. Select Map > Save Results. The Save Results Message dialog box opens.
3. Navigate to the directory where you want to save the file and enter a file name.
4. Click Save.

**Parent topic:** [Mapping](#)

## Clearing the transformation result

---

## Procedure

Select Map > Clear Results. The results are cleared.

---

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## The Emit CData Option

---

### About this task

Select the Emit CData option for a destination node for the text in the destination XML element to be treated as an XML CDATA section and assigned to the destination node as a block and is not parsed during run time. It is equivalent to specifying data for an XML element using the following XML syntax:

```
<! [CDATA[  
text  
]]>
```

The Emit CData option can be selected for any destination nodes (located on the right pane of the Mapping Editor). You can also select the Emit CData option for default values.

Note: The Emit CData option is not available for input nodes (located on the left pane of the Mapping Editor.)

To select the Emit CData option:

## Procedure

---

1. In the Mapping Editor, right-click a destination node that is linked (or mapped) or has a default value associated with it. Destination nodes are located in the right pane of the Mapping Editor either in the To Activity or To Orchestration pane
2. Select the Emit CData option from the list. During run time, the Integration Appliance treats that destination node as a CDATA section.

**Parent topic:** [Mapping](#)

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## The Emit Only If Option

---

### About this task

The Emit Only If condition allows you to map elements conditionally (based on a condition) by evaluating XPath expressions.

This mapping option is available when the target node is a recurrent node with `minOccurs="0"`, which means it is optional. Mapping occurs only if the condition is True.

To select the Emit Only If option:

## Procedure

---

1. In the Mapping Editor, right-click a destination node that is linked (or mapped). Destination nodes are located in the right pane of the Mapping Editor either in the To Activity or To Orchestration pane.
2. Select the Emit Only If option from the list. The Emit Condition dialog box is displayed.
3. Specify an XPath expression in the Left Hand Expression column using the browse button, select the operator, and then specify the value in the Right Hand Expression column.

For example, `bpws:getVariableData('fullName')/fullName/firstName = 'John'` and `bpws:getVariableData('fullName')/fullName/lastName = 'Smith'`

Note: If the condition compares a STRING to the Right Hand Expression it needs to be specified in single quotes ('').

Note: To add multiple conditions, click the Add button. The conditions can be clubbed by AND or OR, and parenthesis is not supported.

Note: To specify conditions that are more complex than what can be specified in the Enter Condition dialog, click the Advanced button.

**Parent topic:** [Mapping](#)

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## Unsupported XML Schema Features

---

Using the following XML Schema features can cause maps to display or transform incorrectly, and can cause validation warnings:

### Choice

---

Limitations to mapping rules might not allow you to correctly define transformation requirements for nodes within a choice. The guaranteed status of mapping rules involving choice structures might be incorrect. Transformations to destination schemas that have choice structures might incorrectly include all choices.

### Mixed Content

---

Elements that allow mixed content can contain both data and other nodes. These nodes display correctly and can be mapped. However, transformation of messages with mixed content nodes might not be complete.

### Recursive Content

---

You cannot create a map with unlimited levels of recursive elements. You can specify mapping rules for no more than five recursive levels.

### Substitution Groups

---

Substitution groups support deriving elements by extension. Using substitution groups in an XML Schema to extend an xs:anyType element to different types of elements is not supported. For example, extending an xs:anyType element to either an element based on a simple type or an element based on a complexType is not supported.

The ability to derive complex types by extension using type substitution is supported. For more information, see [Selecting a substitution type](#) and [Selecting a Substitution Type for Variables](#).

### Unique, Key, or Keyref

---

The Mapping Editor does not provide information about elements that have unique, key, or keyref constraints and mapping rules do not evaluate.

### Various facets for restrictions or extensions

---

Information about the following facets is not available within the Mapping Editor and these facets are not considered when you create mapping rules:

- minInclusive, maxInclusive, minExclusive, and maxExclusive
- length, minLength, and maxLength
- totalDigits and fractionDigits
- whitespace
- patterns
- enumeration

**Parent topic:** [Mapping](#)

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## About Unmapped Destination Nodes

---

During transformations, the Integration Appliance includes all destination nodes in the result message. Destination nodes that are not mapped become empty nodes in the resulting message.

In most cases, this is desired behavior. With updates to databases, however, the Integration Appliance treats an empty node in the outbound message as a NULL value for the database.

To prevent NULL values from being saved to the database, you must remove the unmapped nodes from the XML Schema by clearing the columns from the database activity in the Configure pane. See the following topics for more details:

[Single-Table Inbound Database Activities](#)

[Single-Table Outbound Database Activities](#)

[Poll Table Activity](#)

**Parent topic:** [Mapping](#)

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## Filter Recurring Nodes

---

By specifying an XPath predicate to filter against during run time, you can limit the recurring nodes returned by a mapping activity.

### About this task

---

Filtering using a predicate directly in the mapping panes of activities eliminates the need for the following activities:

- A While Loop or For Each activity that loops through the recurring structures
- An If..Then activity to test for values.

Eliminating the looping and If..Then activities improves orchestration performance.

For example, you can limit the books processed by the BatchOrderProcessingSample orchestration to only return book titles that start with the letter B using either of the following methods:

- After the Read Flat File activity which converts flat file data to XML, you can add a While Loop activity that contains an If..Then activity that tests for all book titles that start with the letter B. When the While Loop activity completes at run time, it returns the set of recurring BookOrder nodes that have titles beginning with the letter B.
- Filter by specifying a predicate directly in the To Orchestration pane of the Map Outputs task of the Read Flat File activity that converts flat file data to XML. This is the preferred method because it reduces the processing during run time - improving orchestration performance. For example, you can specify the following predicate on the recurring BookOrder node to limit the Bookorder nodes returned during run time to only those titles that begin with the letter B:  
\*:title/starts-with(., 'B')

This example predicate is explained in the following table:

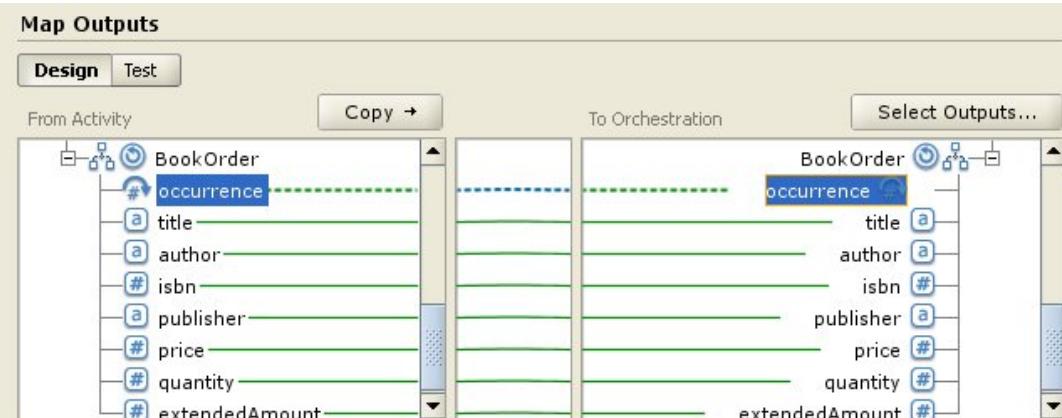
Predicate Characters	Description
*:	Specifies this predicate applies to any namespace of the source node.
title/	Specifies to apply this predicate against the title node of the current source node.
starts-with(., 'B')	Specifies this predicate returns only nodes that have title nodes that start with the letter B. The starts-with function is a built-in XPath function.

For more information about the BookOrder sample, see the *Getting Started Guide*. If you accepted the defaults during the installation of Studio, you can find the reference implementation of the sample in the following directory:C:\Program Files\IBM\WebSphere Cast Iron Studio 3.X\Samples\BookOrder

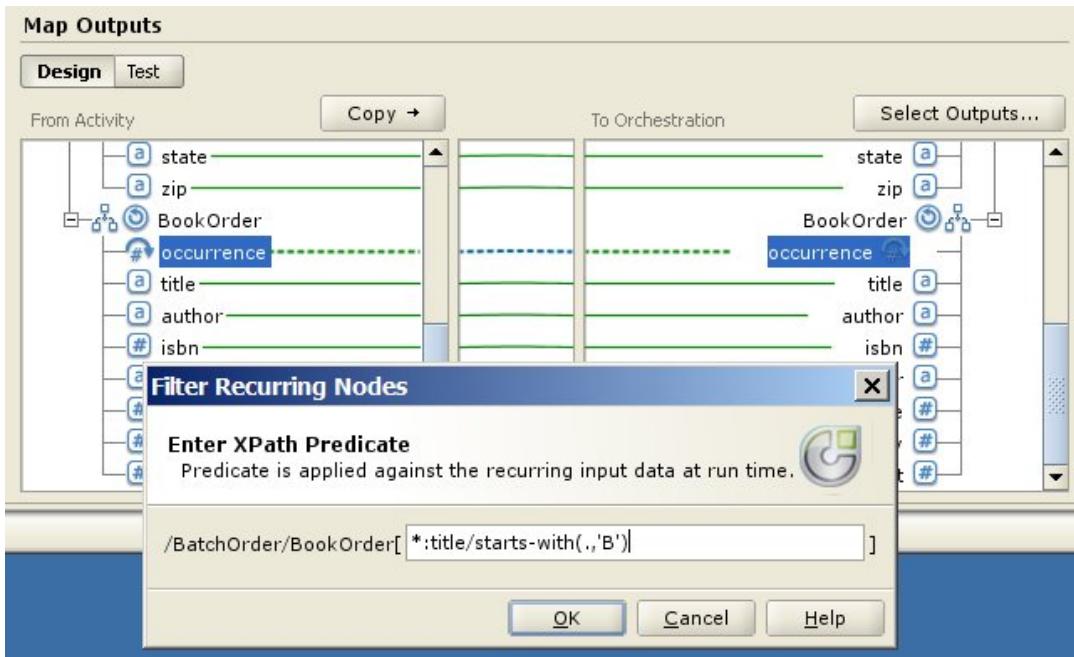
To specify a predicate on a recurring node:

## Procedure

1. You can only apply a filter on a recurring destination node which is mapped to a recurring source node in the mapping panes of activities, as shown in the following Map Outputs pane of the Read Flat File activity in the BatchOrderProcessingSample orchestration:



2. Right-click on the destination occurrence node (in this example BookOrder/occurrence) and select Filter Recurring Nodes from the menu. The Filter Recurring Nodes dialog box opens.
3. Enter the XPath predicate. For this example, enter the predicate shown in the following figure:



4. Click OK. The predicate is evaluated to determine if it is valid:
- If the predicate is invalid, an error message is reported.
  - If the predicate is valid, the filter icon ( ) shows next to the destination occurrence node.

**Parent topic:** [Mapping](#)

[Feedback](#) | [Notices](#)

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## Using Custom Functions and Lookup Tables

- [About Lookup Tables](#)

Lookup tables define a set of key-value (name-value) pairs. During run time, these key-value pairs are used to translate the passed in key to the associated value.

- [Defining Lookup Tables](#)

- [Editing Lookup Tables](#)

- [About Custom Functions](#)

- [Defining a custom function](#)

- [Editing a custom function](#)

- [Custom Function Parameter and Return Datatypes](#)

- [Assigning a Function Without a Source Node Link](#)

- [Assigning a Function While Creating Maps](#)

- [Adding a Function to an Existing Mapping Rule](#)

- [Example: Chaining Multiple Functions](#)

- [Assigning Function\(s\) to a Mapping Rule](#)

Assign built-in or custom function(s) to a map to convert or manipulate the data from source node(s) before it populates the destination node. In addition, the source data for input parameters can be provided by other functions associated with the mapping rule.

- [Deleting a Function from a Mapping Rule](#)

- [Math Functions with Node Set Constraints](#)

- [Adding a Parameter](#)

- [Editing a Parameter](#)

- [Deleting a Parameter](#)

- [Reordering Parameters](#)

- Specifying Default Values for Functions that Accept Recurring Nodes as Input
- 

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## About Lookup Tables

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Lookup tables define a set of key-value (name-value) pairs. During run time, these key-value pairs are used to translate the passed in key to the associated value.

A lookup table is similar to a function that has one input string parameter (the source value to translate) and a string return value (the result of the translation). In the Mapping Editor, a lookup table can be dragged onto a mapping rule in the same way that a function can be.

Lookup tables are available to use in any map in the project where they were defined.

**Parent topic:** [Using Custom Functions and Lookup Tables](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_About\\_Lookup\\_Tables.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_About_Lookup_Tables.html)

## Defining Lookup Tables

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### About this task

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To define or create a lookup table:

### Procedure

---

1. Select the Functions tab. In the Function tab, the list of standard functions shows. In addition, the Actions pane is displayed.
2. To display the Lookup Table dialog box, choose from one of the following options:
  - o Right-click the Lookup Tables node in the Functions tab and from the menu select Add New Lookup Table.... .
  - o In the Actions pane, select Add New Lookup Table.The Lookup Table dialog box opens.
3. In the Table Name field of the Lookup Table dialog box, enter a name for your lookup table.  
Note: This name must be unique for all tables in the current project. The name of the table is not case sensitive - the case of a character is not considered. For example, the table name: Aaa is equivalent to the table name: AAA.
4. Optional: In the Description field enter descriptive information about the table.
5. Define the Key Value pairs for the table.  
Repeat the following steps for each Key Value pair in the table:
  - a. Click Add.
  - b. In the Key field, enter the value of the key. During run time, this key will be matched by the specified value.
  - c. In the Value field, enter the value that the key will be translated to during run time. Press the Return key.
6. Optional: Enter a value in the Default Value field. Enter a value in this field, if you want the lookup table to supply a value even when no keys are matched during run time. Leave this field blank, if the lookup table should not return a value when no keys are matched during run time.
7. Optional: Enter a value in the Value if "nil" field. This property only affects nullable nodes. Enter a value in this field, if during run time you want the lookup table to supply a value even when the source node is empty and the source node is nullable. Leave

this field blank, if during run time the lookup table should not return any value when the source node is empty and the source node is nullable.

8. Click OK.

**Parent topic:** [Using Custom Functions and Lookup Tables](#)

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## Editing Lookup Tables

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### About this task

---

To edit an existing lookup table:

### Procedure

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1. Select the Functions tab. In the Function tab, the list of standard functions shows. In addition, the Actions pane is displayed.
2. In the Function tab, expand Lookup Tables.
3. Select the table to edit.
4. To display the Lookup Table dialog box, choose from one of the following options:
  - o Right-click the table node in the Functions tab and from the menu select Edit....
  - o In the Actions pane, select Add New Lookup Table.The Lookup Table dialog box opens.
5. Edit your table using one of the following actions:
  - o **Add a Key Value pair** - To add another key value pair to your table, follow these steps:
    - a. Click Add.
    - b. In the Key field, enter the name of the key. During run time, this key will be replaced by the specified value.
    - c. In the Value field, enter the value that the key will be translated to during run time. Press the Return key.
  - o **Delete a Key Value pair** - To delete a key value pair from your table, follow these steps:
    - a. Select a key value pair.
    - b. Click Delete.
  - o **Change the Default Value field** - Ä Edit the current setting of the Default Value field. Enter a value in this field, if you want the lookup table to supply a value even when no keys are matched during run time. Leave this field blank, if the lookup table should not return a value when no keys are matched during run time.
  - o **Change the Value if "nil" value field** - Edit the current setting of the Value if "nil" value field. This property only affects nullable nodes. Enter a value in this field, if during run time you want the Lookup table to supply a value even when the source node is empty and the nullable. Leave this field blank, if during run time the lookup table should not return any value when the source node is empty and the source node is nullable.
6. Click OK.

### What to do next

---

Lookup tables are added to mapping rules like functions. For more information about adding functions to mapping rules, see [Assigning Function\(s\) to a Mapping Rule](#).

**Parent topic:** [Using Custom Functions and Lookup Tables](#)

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# About Custom Functions

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Custom functions are JavaScript functions that you develop to use in the Mapping Editor. The following script standards are supported:

- JavaScript 1.5
- ECMAScript 3.0

**Parent topic:** [Using Custom Functions and Lookup Tables](#)

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## Defining a custom function

---

### About this task

---

To define or create a custom function:

### Procedure

---

1. Select the Functions tab. In the Function tab, the list of standard functions is displayed. In addition, the Actions pane opens.
2. To display the Custom Function dialog box, choose from one of the following options:
  - o Right-click the Custom Functions node in the Functions tab and from the menu select Add New Custom Function....
  - o In the Actions pane, select Add New Custom Function.The Custom Function dialog box opens.
3. In the Function Name field of the Custom Function dialog box, enter a valid JavaScript name for your custom function.  
Note: This name must be unique for all custom functions in the current project. The name of the function is not case sensitive - the case of a character is not considered. For example the function name: Aaa is equivalent to the function name: AAA.
4. Select a Return Type for your custom function from one of the following options:
  - o string
  - o number
  - o booleanFor more information about these datatypes, see [Custom Function Parameter and Return Datatypes](#).
5. Define the parameters for your custom function. Repeat the following steps for each parameter in your custom function:
  - a. Click Add.
  - b. In the Name field of the Parameters table, enter the name of the parameter and press the Return key.
  - c. Select a Type for the parameter, from one of the following options:
    - string
    - number
    - booleand. For more information about these datatypes, see [Custom Function Parameter and Return Datatypes](#).
6. Enter the source code for your custom function by following these steps:
  - a. Click Next.
  - b. In the white area displayed between the braces enter the JavaScript code of your custom function. Â
  - c. Click Compile. The syntax of the function will be checked and any errors reported. The location of the errors are highlighted in red in the source code.
  - d. Fix any syntax errors and once the function compiles successfully, click OK and then Finish.

### Results

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The custom function is now available from the Custom Functions folder of the Functions tab.

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## Editing a custom function

---

### About this task

---

To edit an existing custom function:

### Procedure

---

1. Select the Functions tab. In the Function tab, the list of standard functions is displayed. In addition, the Actions pane opens.
2. In the Function tab, expand Custom Functions.
3. Select the custom function to edit.
4. To display the Custom Function dialog box, choose from one of the following options:
  - o Right-click the function node in the Functions tab and from the menu select Edit.... Â
  - o In the Actions pane, select Add New Lookup Table.

The Custom Function dialog box opens.

5. In the Custom Function dialog box, edit your custom function using one of the following actions:

- o **Add a Parameter** - To add a parameter to your custom function follow these steps:
  - a. Click Add. Â
  - b. In the Name field of the Parameters table, enter the name of the parameter.
  - c. Select a Type for the parameter, from one of the following options:
    - string
    - number
    - boolean

For more information about these datatypes, see [Custom Function Parameter and Return Datatypes](#).

- o **Delete a Parameter** - To delete a parameter from your custom function follow these steps:
  - a. In the Name field of the Parameters table, select the parameter and press the Return key.
  - b. Click Delete.
- o **Change the Return Type** - To select one of the following options from the Return Type field:
  - string
  - number
  - boolean

For more information about these datatypes, see [Custom Function Parameter and Return Datatypes](#).

- o **Edit the source code** - To edit the source code of your custom function, follow these steps:
  - a. Click Next.
  - b. In the white area displayed between the braces enter the JavaScript code of your custom function.
  - c. Click Compile.

The syntax of the function will be checked and any errors reported. The location of the errors is highlighted in red in the source code.

- d. Fix any syntax errors and once the function compiles successfully, click OK and then Finish.

The custom function is now available from the Custom Functions folder of the Functions tab.

**Parent topic:** [Using Custom Functions and Lookup Tables](#)

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## Custom Function Parameter and Return Datatypes

---

The datatypes supported in the parameters and the return types of custom functions and their equivalent JavaScript types are listed in the following table.

Custom Datatype	JavaScript Datatype	Description
string	string	Text characters
number	double	Integer or decimal numbers
boolean	bool	Boolean value equal to either <i>true</i> or <i>false</i>

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## Assigning a Function Without a Source Node Link

---

### About this task

To define a mapping rule in which the input for the destination node is provided by the return value of a function and not from a source node:

### Procedure

1. Select the Functions tab. In the Functions tab, the list of available functions is displayed. Â
2. In the Functions tab, expand folder that contains the function to assign to the destination node. This function must have no input parameters. For example, the **Get Current® Date and Time** function has no parameters and returns the current date and time.
3. Select the function icon and drag it into the Mapping Editors middle pane, near the destination node you want to map.
4. In the Mapping Editor, drag from the function icon to the destination node. A link from the function to the destination node is displayed.
5. Optional: Test if the mapping rule is valid by right-clicking on the function in the mapping rule and selecting Apply Function Graph. If the mapping rule is valid, the square function icon in the graphical representation of the mapping link is not displayed and a function icon is shown to the left of the destination node icon, as shown in [Figure 1](#).

### Results

Figure 1. No source node function icon



**Parent topic:** [Using Custom Functions and Lookup Tables](#)

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## Assigning a Function While Creating Maps

---

### About this task

---

To assign a function while creating maps:

### Procedure

---

1. Select the Function tab. In the Function tab, the list of available functions is displayed.
2. From the Function tab, drag a function between the two nodes you want to map in the Mapping Editor.
3. Drag the source node onto the function icon to create a link. The source node is assigned to the first parameter of the function. During run time, the value of this source node is provided as the first parameter of the function.
4. Drag the destination node onto the function to create the link. During run time, the return value of the function populates the destination node.
5. If the function has more than one input parameter, you must assign the remaining input parameters using one of the following options:
  - o Create links from other source nodes (as described in step 3) or from functions used in the current mapping rule.
  - o Edit the assignment of input parameters using the Functions Properties dialog box. To open the Functions Properties dialog box, double-click the function in the Mapping Editor.
6. Optional: Add additional functions to the mapping rule using the procedure described in the topic [Adding a Function to an Existing Mapping Rule](#). For an example, see [Example: Chaining Multiple Functions](#).
7. Optional: If any functions are still associated with the mapping rule, test if the mapping rule is valid by right-clicking on the function in the mapping rule and selecting Apply Function Graph. If the mapping rule is *valid*, the square function icon or icons in the graphical representation of the mapping link are not displayed and a blue bar with small squares at each end is displayed (). If the mapping rule is not valid, the graphical representation of the mapping rule does not change, the function icons are still visible, (for example ) and an error dialog opens.  
Note: A mapping rule with function or functions is considered valid if all the input parameters of the function or functions are assigned with values of the correct datatype and if the return value of the last function matches the datatype of the destination node. The input parameters of a function can be provided by source nodes or by the return type of other functions associated with that mapping rule.

**Parent topic:** [Using Custom Functions and Lookup Tables](#)

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## Adding a Function to an Existing Mapping Rule

---

### About this task

---

To add a function to an existing mapping rule:

### Procedure

---

1. Select the Function tab. In the Function tab, the list of available functions is displayed.
2. From the Function tab, drag a function onto an existing mapping rule in the Mapping Editor.

The source node of the mapping rule is assigned to the first parameter of the function. During run time, the value of the source node is provided to the first parameter of the function.

The destination node of the mapping rule is assigned to the return type of the function. During run time, the return value of the function populates the destination node.

3. If the function has more than one input parameter, you must assign the remaining input parameters using one of the following options:

- Create links from other source nodes (as described in step 3 of [Assigning a Function While Creating Maps](#)) or from functions used in the current mapping rule.
- Edit the assignment of input parameters using the Functions Properties dialog box. To open the Functions Properties dialog box double-click the function in the Mapping Editor.

4. Optional: Add additional functions to the mapping rule using this same procedure. For more information, see [Example: Chaining Multiple Functions](#).

5. Optional: Test if the mapping rule is valid by right-clicking on the function in the mapping rule and selecting Apply Function Graph. If the mapping rule is valid, the square function icon or icons in the graphical representation of the mapping link are not displayed and a blue bar with small squares at each end is displayed (  ). If the mapping rule is not valid, the graphical representation of the mapping rule does not change, the function icons are still visible, (for example:  ) and an error dialog opens.

Note: A mapping rule with function or functions is considered valid if all the input parameters of the function or functions are assigned with values of the correct datatype and if the return value of the last function matches the datatype of the destination node. The input parameters of a function can be provided by source nodes or by the return type of other functions associated with that mapping rule.

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## Example: Chaining Multiple Functions

---

### About this task

---

Multiple functions can be chained together in a single mapping rule. The flow of execution of the functions in the mapping rule is from left to right.

For example, you could build a mapping rule that uses multiple functions as described in the following sequence:

### Procedure

---

1. A source node of type: string is the input parameter to the **trim** function.
2. The **trim** function removes trailing and leading white space from the input parameter and the resulting string is returned.
3. The return string of the **trim** function is the input parameter to the **lowercase** function.
4. The **lowercase** function converts each of the uppercase characters of the input string into their lowercase form and the resulting string is returned.
5. The return string of the **lowercase** function populates the destination node of type: string.

### Results

---

In the Mapping Editor, this mapping rule is displayed as shown in the following figure.



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## Assigning Function(s) to a Mapping Rule

---

Assign built-in or custom function(s) to a map to convert or manipulate the data from source node(s) before it populates the destination node. In addition, the source data for input parameters can be provided by other functions associated with the mapping rule.

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## Deleting a Function from a Mapping Rule

---

### About this task

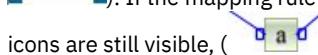
To delete a function used in a mapping rule in the Mapping Editor:

### Procedure

---

1. Display the mapping link with the functions visible. If the mapping link with function or functions has functions associated with it but the functions are not displayed (as shown here: , right-click the mapping rule and from the list and select Edit Function Graph. The functions associated with the mapping rule are displayed.
2. Choose one of the following options:
  - o Select the function to delete and press the Delete key.
  - o Right-click the function and select Delete Function in the list.

Depending on your mapping rule, links between source nodes, other functions, or the destination node might be deleted.

3. Repair any missing links in the mapping rule.
4. Optional: If any functions are still associated with the mapping rule, test if the mapping rule is valid by right-clicking on the function in the mapping rule and selecting Apply Function Graph. If the mapping rule is *valid*, the square function icon or icons in the graphical representation of the mapping link are not displayed and a blue bar with small squares at each end displays (). If the mapping rule is not valid, the graphical representation of the mapping rule does not change, the function icons are still visible, () and an error dialog opens

Note: A mapping rule with function or functions is considered *valid* if all the input parameters of the function or functions are assigned with values of the correct datatype and if the return value of the last function matches the datatype of the destination node. The input parameters of a function can be provided by source nodes or by the return type of other functions associated with that mapping rule.

**Parent topic:** [Using Custom Functions and Lookup Tables](#)

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## Math Functions with Node Set Constraints

---

The following math functions calculate values from sets of nodes:

- **Average**
- **Count**
- **Maximum**
- **Minimum**
- **Sum**

For example, the Sum function calculates the total value of all ItemPrice nodes when ItemPrice is a recurring source node.

You can use several node sets as parameters with these functions, including single nodes. You can also use literal numbers or the results of other math functions as parameters for functions that accept node sets.

### Limitations in Combining Other Math Functions or Literals

---

When using numbers or other functions to supply node set parameters, some math functions use the first occurrence of a node set in calculations. In a mapping rule, if you link functions that work with only one node of the set as a parameter to another function that works with the full node set, the final result will not include values from the full node set.

For example, the Multiply function is linked with the Sum function in a mapping rule and so during run time, the result of the Multiply function becomes the input to the Sum function. If the input to the Multiply function is a recurring item structure, the **Multiply** function multiples the UnitPrice with the Quantity and then passes the result to the Sum function. The result from Sum function would be the product of the first UnitPrice and Quantity — not the total extended price for all items.

Note: The Count function accepts any source node as a parameter, including structure or choice nodes which you usually cannot map.  
**Parent topic:** [Using Custom Functions and Lookup Tables](#)

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## Adding a Parameter

---

### About this task

---

You can only add parameters if required parameters are missing or if the maximum number of optional parameters has not been filled.

To add a parameter:

### Procedure

---

1. Click Add from the Function Parameters dialog box.
2. Enter a value for that parameter in the Value cell.
3. Click OK.

Note: Some functions can only accept source nodes as parameters. For more information, see [Math Functions with Node Set Constraints](#).

**Parent topic:** [Using Custom Functions and Lookup Tables](#)

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## Editing a Parameter

---

### About this task

---

To edit a parameter:

### Procedure

---

1. Open the Function Parameters dialog box for the function to be edited.
2. Click the cell containing the value you want to change. Alternatively, click one of the buttons in the dialog box to add, delete, or reorder the selected parameter.
3. When finished editing, click OK to save changes and close the dialog box.

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## Deleting a Parameter

---

### About this task

---

To delete a parameter:

### Procedure

---

1. Open the Function Parameters dialog box for the function to be edited.
2. Select the *optional* parameter you want to delete from the parameter list.
3. Click Delete.

**Parent topic:** [Using Custom Functions and Lookup Tables](#)

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## Reordering Parameters

---

### About this task

---

To change the order of a parameter in the Parameters list:

## Procedure

---

1. Select the parameter from within the Function Parameters dialog box.
2. Click Up to move the parameter up the list; click Down to move the parameter down the list.

**Parent topic:** [Using Custom Functions and Lookup Tables](#)

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## Specifying Default Values for Functions that Accept Recurring Nodes as Input

---

### About this task

The following math functions calculate values from sets of nodes:

- [Average](#)
- [Count](#)
- [Maximum](#)
- [Minimum](#)
- [Sum](#)

You cannot specify a default value (or constant) for the input parameters of these functions in their Functions Properties dialog box. To specify default values for the input parameters of these functions, complete these steps:

## Procedure

---

1. Create a variable with the same data type as the input parameter for the function.
2. In the "Properties of" pane of the Variables tab, enter the constant value in the Default Value field for the variable.
3. In the From Orchestration pane of the activity, add the variable that has the default value.
4. Map the variable to the input parameter of the function.

**Parent topic:** [Using Custom Functions and Lookup Tables](#)

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## Mapping Function Reference

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There are seven mapping function types: String, Mathematical, HTTP Header, Miscellaneous, Binary Data, Date, and Security functions.

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Use the Mapping Function to describe the purpose of the function, set valid input parameters and syntax, and set what the

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- [AES Encrypt function](#)  
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HMAC is a mechanism for message authentication using cryptographic hash functions.

- [Get Current Date and Time function](#)

The **Get Current Date and Time** function returns the current date and time as a specific XML Schema data type.

- [Get Current Date function](#)

The **Get Current Date** function returns the current date (with the local timezone) as a XML Schema data type: xs:date.

- [Get Current Time function](#)

The **Get Current Time** function returns the current time (with the local timezone) as a XML Schema data type: xs:time

- [Length function](#)

The **Length** function determines the number of character in the parameter.

- [Lowercase function](#)

The **Lowercase** function converts all uppercase characters to lowercase characters.

- [Maximum function](#)

The **Maximum** function determines the highest value in the nodes, sets of numeric nodes, or numbers in parameters.

- [Minimum function](#)

The **Minimum** function determines the lowest value in the nodes, sets of numeric nodes, or numbers in parameters.

- [Modulo function](#)

The **Modulo** function determines the remainder from dividing the first parameter by all subsequent parameters.

- [Multiply function](#)

The **Multiply** function returns the product of all parameters.

- [Not function](#)

The **Not** function is typically used in conditions to specify negative or complimentary conditions.

- [Number function](#)

The **Number** function changes the datatype of the parameter to number.

- [Padding String function](#)

The **Padding String** function returns a padding string of the specified length and characters. Padding strings are used in alignment functions.

- [Position function](#)

The **Position** function is used with conditions to represent the index to the current node within the set of its siblings. The function works only within the context of a recurring node and has no parameters.

- [Read Date String function](#)

The **Read Date String** function converts a string (that contains a date and time) to the XML Schema data type: xs:dateTime.

- [Replace function](#)

The **Replace** function replaces individual characters with other individual characters.

- [Replace String function](#)

The **Replace String** function replaces individual characters or a string with other individual characters or string.

- [Round function](#)

The **Round** function rounds a number to the closest integer.

- [Starts With function](#)

The **Starts With** function determines whether or not the first parameter begins with the characters in the second parameter.

- [String function](#)

The **String** function changes the datatype of the parameter to string.

- [Substring function](#)

The **Substring** function extracts a portion of the parameter based on the specified character placement.

- [Substring After function](#)

The **Substring After** function extracts all the characters in a string starting after the first occurrence of a specified substring (one or more characters) through the end of the string.

- [Substring Before function](#)

The **Substring Before** function extracts all the characters in a string starting at the beginning up to the first occurrence of a specified substring (one or more characters).

- [Subtract function](#)

The **Subtract** function returns the difference of the first parameter less all subsequent parameters.

- [Sum function](#)

The **Sum** function determines the sum of values in the numeric node, sets of numeric nodes, or numbers in parameters.

- [Trim function](#)

The **Trim** function trims all leading and trailing spaces and replaces continuous sets of white space characters by a single space.

- [Uppercase function](#)

The **Uppercase** function converts all lowercase characters to the corresponding uppercase character.

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## Mapping functions overview

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There are seven mapping function types: String, Mathematical, HTTP Header, Miscellaneous, Binary Data, Date, and Security functions.

The mapping functions can be displayed by clicking the Functions tab. Mapping functions are divided into the following categories:

- [String](#)
- [Mathematical](#)
- [HTTP Header](#)
- [Miscellaneous](#)
- [Binary Data](#)
- [Date](#)
- [Security](#)

<b>String functions</b>	<b>Definition</b>
<a href="#">Align Center</a>	Centers a string within the specified padding string.
<a href="#">Align Left</a>	Places a string inside a padding string starting from the leftmost character.
<a href="#">Align Right</a>	Places a string inside a padding string ending with the rightmost character.
<a href="#">Concatenate</a>	Joins all the parameter strings into a single string.
<a href="#">Format Number</a>	Returns a string that is a number formatted to fit the specified pattern.
<a href="#">Length</a>	Determines the number of characters in the parameter.
<a href="#">Lowercase</a>	Converts all uppercase English characters to lowercase characters.
<a href="#">Padding String</a>	Returns a padding string of the specified length and characters.
<a href="#">Replace</a>	Replaces individual characters with other individual characters.
<a href="#">Starts With</a>	Determines whether the first parameter begins with the characters in the second parameter.
<a href="#">Substring</a>	Extracts a portion of the parameter that is based on the specified character placement.
<a href="#">Substring After</a>	Extracts all the characters in a string starting after the first occurrence of a specified substring (one or more characters) through the end of the string.
<a href="#">Substring Before</a>	Extracts all the characters in a string from the beginning to the first occurrence of a specified substring (one or more characters).
<a href="#">Trim</a>	Trims all leading and trailing space from the parameter and normalizes all space within the parameter.
<a href="#">Uppercase</a>	Converts all lowercase English characters to the corresponding uppercase character.

<b>Mathematical functions</b>	<b>Description</b>
<a href="#">Absolute Value</a>	Determines the absolute value of a parameter.
<a href="#">Add</a>	Adds all parameters.
<a href="#">Average</a>	Determines the average value of the numeric nodes or sets of nodes in parameters.
<a href="#">Ceiling</a>	Rounds the parameter up to the next closest integer.
<a href="#">Count</a>	Counts the number of nodes in all the nodes or sets of nodes in parameters.
<a href="#">Divide</a>	Returns the quotient of the first parameter that is divided by all the subsequent parameters.

<b>Mathematical functions</b>		<b>Description</b>
<a href="#">Floor</a>		Rounds the parameter down to the next closest integer.
<a href="#">Maximum</a>		Determines the highest value in the numeric nodes or sets of nodes in parameters.
<a href="#">Minimum</a>		Determines the lowest value in the numeric nodes or sets of nodes in parameters.
<a href="#">Modulo</a>		Determines the remainder from dividing the first parameter by all subsequent parameters.
<a href="#">Multiply</a>		Returns the product of all parameters.
<a href="#">Round</a>		Rounds a number to the closest integer.
<a href="#">Subtract</a>		Returns the difference of the first parameter less all subsequent parameters.
<a href="#">Sum</a>		Adds all the numeric nodes or sets of node in parameters.
<b>HTTP Header functions</b>		<b>Description</b>
<a href="#">Extract HTTP Header Field function</a>		Extracts a string with a specified delimiter. It can also be used to further extract strings from HTTP headers.
<a href="#">Extract URI Path function</a>		Extracts a URI from the HTTP header's URI string.
<a href="#">Extract Query Parameter function</a>		Extracts a query string from the HTTP header's URI string.
<b>Miscellaneous functions</b>		<b>Description</b>
<a href="#">Boolean</a>		Evaluates the parameter and returns either true or false depending on the data type of the input.
<a href="#">CopyOf</a>		When the name of the source node matches the passed in value, this function copies the entire contents of the source node (the entire subtree of the source node including all children) to the destination node.
<a href="#">Not</a>		Returns true if the parameter evaluates as false. Returns false if the parameter evaluates as true.
<a href="#">Number</a>		Changes the data type of the parameter to number.
<a href="#">Position oh</a>		Determines the index to the current node within the set of its siblings.
<a href="#">String</a>		Changes the data type of the parameter to string.
<b>Functions for Binary Data</b>		<b>Description</b>
<a href="#">Cast From Base64Binary function</a>		Casts from the XML schema data type: xs:base64Binary to the XML schema data type: xs:string.
<a href="#">Cast From HexBinary function</a>		Casts from the XML schema data type: xs:hexBinary to the XML schema data type: xs:string.
<a href="#">Cast To Base64Binary function</a>		Casts from the XML schema data type: xs:string to the XML schema data type: xs:base64Binary.
<a href="#">Cast To HexBinary function</a>		Casts from the XML schema data type: xs:string to the XML schema data type: xs:hexBinary.
<b>Date functions</b>		<b>Description</b>
<a href="#">Get Current® Date and Time function</a>		Returns the current date and time (with the local timezone) as an XML schema data type: xs:dateTime.
<a href="#">Get Current Date function</a>		Returns the current date (with the local timezone) as an XML schema data type: xs:date.
<a href="#">Get Current Time function</a>		Returns the current time (with the local timezone) as an XML schema data type: xs:time.
<a href="#">Read Date String function</a>		Converts a string (that contains a date and time) to the XML schema data type: xs:dateTime
<a href="#">Format Date String function</a>		Converts an XML schema data type: xs:dateTime to a string in the format that is defined by the second parameter.
<b>Security functions</b>		<b>Description</b>
<a href="#">AES Encrypt function</a>		Encrypts the fields and content using the Advanced Encryption Standard (AES) algorithm.
<a href="#">AES Decrypt function</a>		Decrypts the fields and content using the Advanced Encryption Standard (AES) algorithm.

**Parent topic:** [Mapping Function Reference](#)

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## Mapping Function Syntax and Datatypes

---

Use the Mapping Function to describe the purpose of the function, set valid input parameters and syntax, and set what the function returns.

Mapping function topic descriptions include the following:

- A brief description of the purpose of the function.
- Valid input parameters. Parameters are listed in order as the order is significant for most functions. The following syntax is used with parameters:

datatype<sup>n</sup> where n indicates an order if several parameters of the same type are allowed

[datatype] where [ ] indicates that the parameter is optional.

- What the function returns.

Mapping functions can process the following datatypes:

anySimpleType

Any type of data is allowed including numbers, strings, dates, or boolean.

boolean

Either *true* or *false*.

date

A string representing a date in the format YYYY-MM-DD (see datetime for the component descriptions).

datetime

A string representing a date and time in the format:YYYY-MM-DDThh:mm:ss.ssss

Where:

- YYYY = year
- MM = month
- DD = day
- T = date/time separator character
- hh = hour
- mm = minute
- ss = second
- ssss = optional millisecond

day

A string representing the day portion of a date in the format: DD

dt

Several different date or time datatypes can be supplied. See the description of the parameter for a list of the datatypes that are valid.

duration

A string representing a time interval in the form [-]PnYnMnDTnHnMnS:

- [-] = an optional minus sign
- P = period indicator
- nY = the number of years
- nM = the number of months
- nD = the number of days
- T = date/time separator
- nH = the number of hours

- nM = the number of minutes
- nS = the number of seconds

#### empty string

A string with no contents (for example, ''). This is typically returned for error conditions when the result is normally a string.

#### month

A string representing the month portion of a date in the format: MM

#### monthday

A string representing the month and day portion of a date in the format: MM-DD

#### nodeset

A set of nodes within the schema. Node sets are identified by a specific path to a node or structure in the schema. Node sets are used in certain math functions. The datatype of the nodes within the set should be number.

#### number

Any integer or decimal number including:

- positive and negative zero
- positive and negative infinity
- NaN (This is a value indicating that the result is not a number.)

#### string

Text characters within the character encoding of the message

#### time

A string representing a time of day in the format:

hh:mm:ss.sss[-time-zone-indicator]

See [datetime](#) for the component descriptions.

#### tm

Several different time datatypes can be supplied. See the description of the parameter for a list of the datatypes that are valid.

#### year

A string representing the year portion of a date in the format: YYYY

#### yearmonth

A string representing the year and month portion of a date in the format: YYYY-MM

**Parent topic:** [Mapping Function Reference](#)

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## Absolute Value function

The **Absolute Value** function determines the absolute value of the parameter.

**Parameter:** number

The number for which an absolute value is determined. This can be a source node, the result of another function, or a value you specify.

**Returns:** number

The absolute value of the parameter.

Â **Example:**

10 is the result for both 10 and -10.

**Parent topic:** [Mapping Function Reference](#)

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## Add function

---

The **Add** function adds all the parameters.

**Parameter:** number1, [number2 - 1000]

Each parameter can be a source node, the result of another function, or a value you specify. At least one parameter is required.

**Returns:** number

The sum of all parameters.

**Parent topic:** [Mapping Function Reference](#)

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## AES Decrypt function

---

The **AES Decrypt** function decrypts fields and content using the Advanced Encryption Standard (AES) algorithm with 128 bit strength. 128-bit encryption level requires an 8-byte key, which must be a 32-character hexadecimal string.

**Parameter:** data, key

Data that is passed as the encrypted content is decrypted to the original content using the AES key.

**Returns:** string

The decrypted content is returned and stored as a string.

**Parent topic:** [Mapping Function Reference](#)

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## AES Encrypt function

---

The **AES Encrypt** function encrypts fields and content using the Advanced Encryption Standard (AES) algorithm with 128 bit strength. 128-bit encryption level requires an 8-byte key, which must be a 32-character hexadecimal string.

**Parameter:** data, key

Data that is passed as the input is encrypted using the AES key.

**Returns:** string

The encrypted content is returned and stored as a string.

**Parent topic:** [Mapping Function Reference](#)

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## Align Center function

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The **Align Center** function centers a string within a padding string. If the padding for both sides is uneven, the lesser amount of padding is placed on the left.

**Parameter:** string1

The string to be aligned. This can come from a source node, the result of another function, or a value you specify.

**Parameter:** string2

A padding string. This string must be long enough to create a result and must contain the character or characters to use for padding. This can come from a source node, the result of another function, or a value that you specify. You can use the [Padding String](#) function to produce a padding string.

**Returns:** string

The padded and centered string.

**Example:**

```
align-center('widgets', '-----') = '-widgets--'
```

**Parent topic:** [Mapping Function Reference](#)

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## Align Left function

---

The **Align Left** function places a string within a padding string starting from the left-most character.

**Parameter:** string1

The string to be aligned. This can come from a source node, the result of another function, or a value you specify.

**Parameter:** string2

A padding string. This string must be long enough to create a result and must contain the character or characters to use for padding. This can come from a source node, the result of another function, or a value that you specify. You can use the [Padding String](#) function to produce a padding string.

**Returns:** string

The padded and left-aligned string.

Example: align-left('widgets','-----') = 'widgets---

**Example:**

```
align-center('widgets','-----') = '-widgets--'
```

**Parent topic:** [Mapping Function Reference](#)

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## Align Right function

---

The **Align Right** function places a string within a padding string ending at the right-most character.

**Parameter:** string1

The string to be aligned. This can come from a source node, the result of another function, or a value you specify.

**Parameter:** string2

A padding string. This string must be long enough to create the result and must contain the character or characters to use for padding. This can come from a source node, the result of another function, or a value that you specify. You can use the [Padding String](#) function to produce a padding string.

**Example:**

```
align-center('widgets','-----') = '-widgets--'
```

**Parent topic:** [Mapping Function Reference](#)

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## Average function

---

The **Average** function determines the average value for the sets of numeric nodes in all parameters.

If you use literal numbers or the results of other functions as parameters to this function, the numbers are added to the total. They are also counted as nodes to determine the average.

**Parameter:** input, input...

The numeric nodes to calculate an average from. These can come from recurring or nonrecurring source nodes, the results of other functions, or values that you specify.

You cannot specify a default value (or constant) for the input parameters of this function but you can specify a variable with a default value and then pass that variable as an input parameter to this function. For more information, see [Specifying Default Values for Functions that Allow Recurring Nodes as Input](#).

Attention: In the Mapping Editor, if you chain together a recurring source node, a function that does not support recurring nodes, and then map that result to this function, during run time you may get an unexpected result. For more information, see [Limitations in Combining Other Math Functions or Literals](#).

**Returns:** number

The average value of all parameters. This returns NaN (not a number) in the following cases:

- If any parameters are not numeric nodes.
- If both the sum of all values and the count of node sets are zero (the average of 0 / 0).

**Parent topic:** [Mapping Function Reference](#)

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## Base64 Encode and Decode functions

---

Base64 refers to a specific MIME content transfer encoding. Base64 encoding represents arbitrary sequences of octets in a form that requires case sensitivity but need not be humanly readable.

A 65-character subset of US-ASCII is used, enabling 6 bits to be represented per printable character. The 65th character, "=", is used to signify a special processing function.

The encoding process represents 24-bit groups of input bits as output strings of 4 encoded characters. Proceeding from left to right, a 24-bit input group is formed by concatenating 3 8-bit input groups. These 24 bits are then treated as 4 concatenated 6-bit groups, each of which is translated into a single digit in the base 64 alphabet.

Each 6-bit group is used as an index into an array of 64 printable characters. The character referenced by the index is placed in the output string.

### Base64 Alphabet

Value	Encoding	Value	Encoding	Value	Encoding	Value	Encoding
0	A	17	R	34	i	51	z
1	B	18	S	35	j	52	0
2	C	19	T	36	k	53	1
3	D	20	U	37	l	54	2
4	E	21	V	38	m	55	3
5	F	22	W	39	n	56	4
6	G	23	X	40	o	57	5
7	H	24	Y	41	p	58	6
8	I	25	Z	42	q	59	7
9	J	26	a	43	r	60	8
10	K	27	b	44	s	61	9
11	L	28	c	45	t	62	+
12	M	29	d	46	u	63	/
13	N	30	e	47	v		
14	O	31	f	48	w	(pad)	=
15	P	32	g	49	x		
16	Q	33	h	50	y		

Special processing is performed if fewer than 24 bits are available at the end of the data being encoded. A full encoding quantum is always completed at the end of a quantity. When fewer than 24 input bits are available in an input group, zero bits are added (on the

right) to form an integral number of 6-bit groups. Padding at the end of the data is performed using the '=' character. Since all base 64 input is an integral number of octets, only the following cases can arise:

- The final quantum of encoding input is an integral multiple of 24 bits; here, the final unit of encoded output will be an integral multiple of 4 characters with no "=" padding.
- The final quantum of encoding input is exactly 8 bits; here, the final unit of encoded output will be two characters followed by two "=" padding characters.
- The final quantum of encoding input is exactly 16 bits; here, the final unit of encoded output will be three characters followed by one "=" padding character.

**Parent topic:** [Mapping Function Reference](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_Base64\\_Encode\\_and\\_Decode\\_Functions.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_Base64_Encode_and_Decode_Functions.html)

## Boolean function

---

The **Boolean** function evaluates the parameter and returns either 'true' or 'false' depending on the datatype of the input:

- string "true" unless the string is empty
- number "true" if the number is not zero, *false* if the number is zero

**Parameter:** anysimpletype

The value to be evaluated. This can come from a source node, the result of another function, or a value that you specify.

**Returns:** boolean

Either *true* or *false*.

**Parent topic:** [Mapping Function Reference](#)

---

[Feedback](#) | [Notices](#)

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## Ceiling function

---

The **Ceiling** function rounds the parameter up to the next closest integer.

**Parameter:** number

The number to round up to an integer. This can come from a source node, the result of another function, or a value that you specify.

**Returns:** number

The closest integer that is greater than the parameter.

**Example:**

`ceiling(4.2) = 5`

**Parent topic:** [Mapping Function Reference](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_Ceiling.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_Ceiling.html)

## Concatenate function

---

The **Concatenate** function joins all parameter strings into a single result in the order you specify the parameters.

**Parameters:** string1, string2, [string3-string1000]

Each parameter can be a source node, the result of another function, or a value that you specify. The order of the parameters determines the order in which the parameters are joined (that is, the first parameter displays as left-most in the resulting string).

Note: You must specify at least two parameters in order for the function to be valid. While configuring the properties of the **Concatenate** function in the Function Properties dialog box, you cannot click Delete for the top two parameters in the list. (The Delete button is not active for the top two parameters.) You can only click Delete, if there are more than two parameters in the list and only for the parameters at the bottom of the list. To delete a parameter from the top two positions of the list, first move the parameter down the list clicking Down and then click Delete.

**Returns:** string

The joined strings.

**Parent topic:** [Mapping Function Reference](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_Concatenate.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_Concatenate.html)

## Cast From Base64Binary function

---

The **Cast From Base64Binary** function casts from one specific XML Schema data type to another XML Schema data type.

### About this task

---

Casts from the XML Schema data type: xs:base64Binary to the XML Schema data type: xs:string. The data is not converted, only the type associated with the data is changed.

**Parameter:** base64Binary

The data to cast from the XML Schema data type: xs:base64Binary.

**Returns:** string

The data that has been cast to the XML Schema data type xs:string.

**Parent topic:** [Mapping Function Reference](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Convert\\_From\\_Base64Binary\\_function.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Convert_From_Base64Binary_function.html)

## Casts From HexBinary function

---

The **Casts From HexBinary** function casts from one specific XML Schema data type to another XML Schema data type.

### About this task

---

Casts from the XML Schema data type: xs:hexBinary to the XML Schema data type: xs:string. The data is not converted, only the type associated with the data is changed.

**Parameter:** HexBinary

The data to cast from the XML Schema data type: xs:hexBinary

**Returns:** string

The data that has been cast to the XML Schema data type: xs:string.

**Parent topic:** [Mapping Function Reference](#)

---

[Feedback](#) | [Notices](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Convert\\_From\\_HexBinary\\_function.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Convert_From_HexBinary_function.html)

## Cast To Base64Binary function

---

The **Cast To Base64Binary** function casts from one specific XML Schema data type to another XML Schema data type.

### About this task

---

Casts from the XML Schema data type xs:string to the XML Schema data type: xs:base64Binary. The data is not converted, only the type associated with the data is changed.

**Parameter:** string

The data to cast from the XML Schema data type: xs:string.

**Returns:** base64Binary

The data that has been cast to the XML Schema data type: xs:base64Binary.

**Parent topic:** [Mapping Function Reference](#)

---

[Feedback](#) | [Notices](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Convert\\_To\\_Base64Binary\\_function.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Convert_To_Base64Binary_function.html)

# Cast To HexBinary function

The **Cast To HexBinary** function casts from one specific XML Schema data type to another XML Schema data type.

## About this task

Casts from the XML Schema data type: xs:string to the XML Schema data type: xs:hexBinary. The data is not converted, only the type associated with the data is changed.

**Parameter:** string

The data to cast from the XML Schema data type: xs:string.

**Returns:** hexBinary

The data that has been cast to the XML Schema data type: xs:hexBinary.

**Parent topic:** [Mapping Function Reference](#)

---

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# CopyOf function

The **CopyOf** function copies the entire contents of the source node to the destination node.

The **CopyOf** function () copies the entire contents of the source node (the entire subtree of the source node including all children) to the destination node.

Attention: The XML Schema of the destination node must match the XML Schema of the source node for the CopyOf function to correctly copy the values of the source nodes to the destination nodes.

For example, if the Call Procedure activity returns the following result set nodes (through the any node) during run time:

- results/result/resultSet/column1, where column1 is an integer.
- results/result/resultSet/column2, where column2 is an integer.

The XML Schema of the destination nodes in the To Orchestration pane, must match the expected XML Schema of the result set that is returned from the Call Procedure activity, as shown in the following figure:



In the preceding figure, the CopyOf function () is linking the source result node and the destination result node.

**Parameter:** input

The name of the source nodes to copy.  $\wedge \wedge$

**Returns:** anySimpleType

The resulting subtree of XML data.

**Parent topic:** [Mapping Function Reference](#)

---

[Feedback](#) | [Notices](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/CopyOfFunction.html>

## Count Function

---

The **Count** function determines the number of nodes in all of the sets of nodes in parameters.

For recurring nodes, this function determines the actual number of occurrences.

This function accepts any source node as a parameter. This includes structure or choice nodes which you normally cannot map.

If you use literal numbers as parameters in this function, the numbers are considered one node and incremented by a count of one.

**Parameter:** input, input...

The sets of nodes to count. These can come from recurring or nonrecurring source nodes, the results of other functions, or values that you specify.

You cannot specify a default value (or constant) for the input parameters of this function but you can specify a variable with a default value and then pass that variable as an input parameter to this function. ▶ For more information see [Specifying Default Values for Functions that Allow Recurring Nodes as Input](#). ▶ ▶

Attention: In the Mapping Editor, if you chain together a recurring source node, a function that does not support recurring nodes, and then map that result to this function, during run time you might get an unexpected result. ▶ For more information see [Limitations in Combining Other Math Functions or Literals](#).

**Returns:** number

The total number of nodes in the parameters.

**Parent topic:** [Mapping Function Reference](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_Count.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_Count.html)

## Decode Configuration Property of Type Password

---

The **Decode Configuration Property** of type Password decodes base64-encoded passwords between two orchestrations.

The calling orchestration sends a user ID and a password. The decode password configuration property ensures that the receiving orchestration receives a base64-encoded password which it can decode.

**Parent topic:** [Mapping Function Reference](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_Decode\\_Password\\_Configuration\\_Property.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_Decode_Password_Configuration_Property.html)

## Digest/Hash function

---

The **Digest/Hash** function produces a digital summary of information called a message digest. Message digests provide a digital identifier for a digital document. The message digest produced by the Digest/Hash function is Base64 encoded.

Message digest functions are mathematical functions that process information to produce a message digest for each unique document. Identical documents have the same message digest, which can be used to ensure that the message received is the same as the message sent.

There are three **Digest/Hash** functions in Studio:

- **Digest/Hash the Input Data with MD5**
- **Digest/Hash the Input Data with SHA-1**
- **Digest/Hash the Input Data with SHA-256**

The input is the document or string for which you want a digest. For example, MD5 ("Austin was happy that the band played on") =NjJhODJhNTViZmI3Y2YwZDc2NDkxYjc0ZTkzZDlmMTQ=

MD5 is defined in RFC 1321. IBMÂ® Cast IronÂ® uses the MD5 algorithm included in the JDK security package. The algorithm takes a message of undefined length and outputs a message digest of 128 bits.

SHA-1 is defined by the Federal Information Processing Standards Publication 180-1 (FIPS PUB 180-1). IBM Cast Iron uses the SHA-1 algorithm included in the JDK security package. SHA-1 takes an input message of any length less than 264 bits and produces a message digest of 160-bits.

SHA-256 is a 256-bit hash function and is compliant with the National Institute of Standards SP 800-131a specification. IBM Cast Iron uses the SHA-256 algorithm included in the JDK security package. The input is the document or string for which you want a digest. For example, SHA-56 ("Sample Input") =bEzV+7Tz6afzJhY0E5u0Zt1+9uBURb/2pgi2PT9Ms/s=. The hash value is 32 bytes or 256 bits length.

Use **Digest/Hash the Input Data with MD5** function to create a Base64 encoded digest of the input data using MD5.

Use the **Digest/Hash the Input Data with SHA-1** function to create a Base64 encoded digest of the input data using SHA-1.

Use the **Digest/Hash the Input Data with SHA-256** function to create a Base64 encoded digest of the input data using SHA-256.

Â Â Â

**Parent topic:** [Mapping Function Reference](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_DigesHash.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_DigesHash.html)

## Divide function

---

The **Divide** function returns the decimal quotient of the first parameter divided by all subsequent parameters.

**Parameter:** number1

The number to be divided (dividend). This can be a source node, the result of another function, or a value that you specify.

**Parameter:** number2, [number3-999]

The numbers to divide by (divisor). These can be source nodes, the results of other functions, or values that you specify. At least one parameter is required.

**Returns:** number

The result of the division operation. If the divisor is zero (positive or negative), the result is infinity (positive or negative), or NaN (not a number) if the dividend is also zero.

**Parent topic:** [Mapping Function Reference](#)

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## Extract HTTP Header Field function

---

The **Extract HTTP Header Field** function extracts a string with a specified delimiter. It can be used to further extract strings from HTTP headers.

Input1 – Header string, for example: *text/html; charset=UTF-8* or *text/\*;q=0.3, text/html;q=0.7, text/html;level=1*

Input2 – A string that specifies the name value, for example: *charset*

Input3 – Specified delimiter, for example: *";* or *"*

Output – The value string. For example: *UTF-8* when *char-set* is extracted from **Content-Type** header.

**Parent topic:** [Mapping Function Reference](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_extract\\_HTTP\\_header\\_field.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_extract_HTTP_header_field.html)

## Extract Query Parameter function

---

The **Extract Query Parameter** function extracts a query string from the HTTP header's URI string.

Input1 – HTTP header's URI string, for example: *URI?name1=value1&name2=value2....#anchor*. The characters after *?* or *#* may not be present.

Input2 – A string that specifies the query string's name, for example: *name1* in the *input1* string.

Output – The query string's string value, for example: *value1* in the *input1* string.

**Parent topic:** [Mapping Function Reference](#)

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[Feedback](#) | [Notices](#)

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## Extract URI Path function

---

The **Extract URI Path** function extracts a URI from the HTTP header's URI string.

Input â€“ HTTP header URI string, for example: *URI?name1=value1&name2=value2....#fragment*. The characters after ? or # may not be present. *fragment* is not part of the HTTP request and is only used by the Web browser client.

**Parent topic:** [Mapping Function Reference](#)

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## Floor function

---

The **Floor** function rounds the parameter down to the next closest integer.

**Parameter:** number

The number to round down to an integer. This can come from a source node, the result of another function or a value that you specify.

**Returns:** number

The closest integer that is less than the parameter.

**Example:**

`floor(4.7) = 4`

**Parent topic:** [Mapping Function Reference](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_Floor.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_Floor.html)

## Format Date String function

---

The **Format Date String** function converts the XML Schema data type: xs:dateTime to a string in the format defined by the second parameter.

**Parameter:** dateTime

The date and time as a XML Schema data type: xs:dateTime.

**Parameter:** string

This string defines the format of the date and time string returned from this function. For example, the format string could be equal to MM/dd/yyyy. For more information about the supported date and time pattern strings see the SimpleDateFormat class in the Sun J2SE 1.4.2 JavaDoc: <http://www.science.uva.nl/ict/ossdocs/java/jdk1.3/docs/api/java/text/SimpleDateFormat.html>.

<b>Pattern Letter</b>	<b>Description</b>	<b>Example1</b>	<b>Example2</b>
G	Era Â designation	AD	BC
y	Year	2004	2001
M	Month in a year	April	04
w	Week in a year	12	24
W	Week in a month	3	1
D	Day in a year	234	333
d	Day in a month	13	20
F	Day of week in a month	1	3
E	Day in a week	Monday	Friday
a	AM or PM designation	AM	PM
H	Hour in a day - a number between 0 and 23	12	13
k	Hour in a day - a number between 1 and 24	14	23
K	Hour in AM or PM - a number between 0 and 11	0	10
h	Hour in AM or PM - a number between 1 and 12	11	12
m	Minute in an hour	20	50
s	Second in a minute	10	30
S	Milliseconds	224	338
z	Time zone in General time zone designation	PDT	EDT
Z	Time zone in ISO-8601 time zone designation	-03:00	+02:00

**Parameter:** string Â (Optional)

This string defines the locale. For example, the English United States locale is defined with the following string: en\_US.

The locale string can be defined by any of the following formats:

- LANGUAGE
- LANGUAGE\_COUNTRY
- LANGUAGE\_COUNTRY\_VARIANT

Where LANGUAGE represents a two letter code as defined by the ISO-639 standard, COUNTRY represents a two letter code defined by the ISO-3166, and VARIANT represents a vendor or browser-specific code, for example WIN for Windows.

This parameter is optional.

To add this parameter:

1. Drop the Format Date String function into the middle pane of the Mapping Editor.
2. Double-click the function. The Function Properties pane opens.
3. Click Add. The Locale input parameter shows in the list of parameters.

**Returns:** string

The passed in date and time as a string in the format defined by the second parameter.

For example, if the Format Date String function was called with the following input parameters:

dateTime: 2005-02-22T16:18:00.852-08:00

format string: MM/dd/yyyy

locale string: en\_US

The following string would be returned: 02/22/2005.

**Parent topic:** [Mapping Function Reference](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_Format\\_Date\\_String\\_function.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_Format_Date_String_function.html)

## Format Number function

---

The **Format Number** function returns a string that is a number formatted to fit the specified pattern.

**Parameter:** number

The number to format. This can come from a source node, the result of another function, or a value that you specify.

**Parameter:** string

A pattern that specifies how the first parameter should be formatted. This pattern uses these symbols to define the pattern:

- Required digits = 0
- Optional digits = #
- Minus symbol = -
- Decimal symbol = .
- Grouping separator = ,. Typically used to separate groups of three digits.
- Percent symbol = %. When the percent symbol is present, the input number is multiplied by 100 and the result is shown as a percentage.
- Per mille symbol = ª (Unicode x2030). This symbol multiplies the number by 1000 and shows the result as a per mille.
- Positive/negative separator = ;
- Infinity = infinity
- Not a number = NaN
- \$ = \$

Patterns can have constant text as a prefix, suffix, or both. Common uses are to specify the currency symbol or some unit of measurement.

- \$#,##0.00 ª formats a number in the standard format for United States dollars with the dollar sign, commas for separators and at least one dollar digit and two digits for cents.
- #.000% ª formats a decimal number as a percentage with at least three decimal places.
- #,##0.00;(#,##0.00) ª formats negative number with parentheses, a format commonly used in accounting.

**Returns:** string

The first parameter reformatted to reflect the pattern specified by the second parameter.

## Examples

---

Patterns can have constant text as a prefix, suffix, or both. Common uses are to specify the currency symbol or some unit of measurement. ª

### Example 1

\$#,##0.00 ª formats a number in the standard format for United States dollars with the dollar sign, commas for separators and at least one dollar digit and two digits for cents.

```
format-number(12345.6789, '$#,##0.00') = '$12,345.67'
```

### Example 2

#.000% ª formats a decimal number as a percentage with at least three decimal places.

```
format-number(.67890123, '#.000%') = '67.890%'
```

When the percent symbol is present, the input number is multiplied by 100.

### Example 3

#,##0.00;(#,##0.00) formats negative number with parentheses, a format commonly used in accounting.

```
format-number(-12345.6789, '#,##0.00; (#,##0.00)') = '(12,345.67)'
```

**Parent topic:** [Mapping Function Reference](#)

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## Generate RFC2104 HMAC Compliant Signature

---

HMAC is a mechanism for message authentication using cryptographic hash functions.

This HMAC function uses the iterative cryptographic hash function SHA-1 with a secret shared key.

Use this function to generate a digital signature that is compliant with HMAC.

#### Parameter: data (type=string)

The information or message to be validated.

#### Parameter: key (type=string)

The key used to validate the data.

#### Parameter: encoding (type=string)

The encoding to apply to the data and key. This can be one of:

- **US-ASCII** - Seven-bit ASCII. Also called ISO646-US. The Basic Latin block of the Unicode character set.
- **ISO-8859-1** - ISO Latin Alphabet No. 1. Also called ISO-LATIN-1.
- **UTF-8** - Eight-bit UCS Transformation Format.
- **UTF-16BE** - Sixteen-bit UCS Transformation Format, big-endian byte order.
- **UTF-16LE** - Sixteen-bit UCS Transformation Format, little-endian byte order.
- **UTF-16** - Sixteen-bit UCS Transformation Format, byte order identified by an optional byte-order mark.

#### Returns: HMAC signature (type string)

The generated HMAC signature in UTF-8 encoding.

**Parent topic:** [Mapping Function Reference](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_Generate\\_RFC2104\\_HMAC\\_Compliant\\_Signature.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_Generate_RFC2104_HMAC_Compliant_Signature.html)

## Get Current Date and Time function

---

The **Get Current® Date and Time** function returns the current date and time as a specific XML Schema data type.

### About this task

---

The Get Current Date and Time function returns the current date and time (with the local timezone) as an XML Schema data type: xs:dateTime.

**Parameter:**Â none

**Returns:** dateTime

The current date and time as the XML Schema data type: xs:dateTime. For example, if this function is run on February 22, 2005, at 12:43 PM in the PST timezone (- 08:00) this function returns the following dateTime:

2005-02-22T12:43:51-08:00

Note: If this function is called twice in a map, it is not guaranteed that the same dateTime is returned. This function is not **stable** as defined by the W3C.

**Parent topic:** [Mapping Function Reference](#)

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## Get Current Date function

---

The **Get CurrentÂ® Date** function returns the current date (with the local timezone) as a XML Schema data type: xs:date.

### About this task

---

**Parameter:**Â none

**Returns:** date

The current date as the XML Schema data type: xs:date. For example, if this function is run on February 22, 2005 in the PST timezone (- 08:00) this function returns the following date:

2005-02-22-08:00

Note: If this function is called twice in a map, it is not guaranteed that the same date is returned. This function is not **stable** as defined by the W3C.

**Parent topic:** [Mapping Function Reference](#)

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## Get Current Time function

---

The **Get CurrentÂ® Time** function returns the current time (with the local timezone) as a XML Schema data type: xs:time

### About this task

---

**Parameter:**Â none

**Returns:** time

The current time as the XML Schema data type: xs:time. For example, if this function is run at 12:43 PM in the PST timezone (-08:00) this function returns the following time:

12:43:51-08:00

Note: If this function is called twice in a map, it is not guaranteed that the same time is returned. This function is not **stable** as defined by the W3C.

**Parent topic:** [Mapping Function Reference](#)

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## Length function

---

The **Length** function determines the number of character in the parameter.

**Returns:** number

The number of characters in the parameter.

**Parameter:** string

The string to count. This can come from a source node, the result of another function, or a value you specify.

### Example

---

`length('The string to count') = 19`

**Parent topic:** [Mapping Function Reference](#)

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## Lowercase function

---

The **Lowercase** function converts all uppercase characters to lowercase characters.

**Parameter:** string

The string to convert. This can come from a source node, the result of another function, or a value you specify.

**Returns:** string

The converted string.

**Parent topic:** [Mapping Function Reference](#)

---

[Feedback](#) | [Notices](#)

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## Maximum function

---

The **Maximum** function determines the highest value in the nodes, sets of numeric nodes, or numbers in parameters.

**Parameter:** input, input ...

The numeric nodes to compare. These can come from recurring or nonrecurring source nodes, the results of other functions, or values that you specify.

You cannot specify a default value (or constant) for the input parameters of this function but you can specify a variable with a default value and then pass that variable as an input parameter to this function. For more information see [Specifying Default Values for Functions that Allow Recurring Nodes as Input](#).

Attention: In the Mapping Editor, if you chain together a recurring source node, a function that does not support recurring nodes, and then map that result to this function, during run time you might get an unexpected result. For more information see [Limitations in Combining Other Math Functions or Literals](#).

**Returns:** number

The maximum value of all nodes in the parameters. For recurring nodes, values for every occurrence in the recurring set is used to find the maximum. If any parameter is not a set of numeric nodes or is an empty node set, the function returns NaN (not a number).

**Parent topic:** [Mapping Function Reference](#)

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## Minimum function

---

The **Minimum** function determines the lowest value in the nodes, sets of numeric nodes, or numbers in parameters.

**Parameter:** input, input ...

The numeric nodes to compare. These can come from recurring or nonrecurring source nodes, the results of other functions, or values that you specify.

You cannot specify a default value (or constant) for the input parameters of this function but you can specify a variable with a default value and then pass that variable as an input parameter to this function. For more information see [Specifying Default Values for Functions that Allow Recurring Nodes as Input](#).

Attention: In the Mapping Editor, if you chain together a recurring source node, a function that does not support recurring nodes, and then map that result to this function, during run time you might get an unexpected result. For more information see [Limitations in Combining Other Math Functions or Literals](#).

**Returns:** number

The minimum value of all nodes in the parameters. For recurring nodes, values for every occurrence in the recurring set is used to find the minimum. If any parameter is not a number, not a set of numeric nodes, or is an empty node set, the function returns NaN (not a number).

**Parent topic:** [Mapping Function Reference](#)

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## Modulo function

---

The **Modulo** function determines the remainder from dividing the first parameter by all subsequent parameters.

**Returns:** number

The remainder from dividing the first parameter by the remaining parameters. If the divisor is zero, returns NaN (not a number).

**Parameter:** number1

The number to be divided (dividend). This can come from a source node, the result of a function, or a value you specify.

**Parameter:** number2, [number3-999]

The numbers to divide with (divisor). These can come from source nodes, the results of other functions, or values you specify. At least one divisor parameter is required.

If multiple parameters are specified as divisors, the order of operations is as follows: the remainder returned from the first division operation becomes the dividend for the second operation, and so forth. See Example 2.

### Example 1: Using one divisor parameter

---

modulo(42, 5) = 2

42 / 5 = 8 R2

### Example 2: Using multiple divisor parameters

---

modulo(61, 7, 2) = 1

61 / 7 = 8 R5

5 / 2 = 2 R1

**Parent topic:** [Mapping Function Reference](#)

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## Multiply function

---

The **Multiply** function returns the product of all parameters.

**Parameter(s):** number1, number2, [number3-1,000]

The numbers to multiply. At least two parameters are required. Each parameter can come from a source node, the result of a function, or a value you specify.

**Returns:** number

The product of the parameters.

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## Not function

---

The **Not** function is typically used in conditions to specify negative or complimentary conditions.

Returns true if the parameter evaluates as false. Returns false if the parameter evaluates as true.

**Parameter:** datatype

Any number, string, date, time, or boolean value. This can come from a source node, the result of a function, or a value you specify.

**Returns:** boolean

The boolean inverse of the parameter. The evaluation rules depend on the datatype of the parameter.

For number datatypes:

- Positive and negative zero evaluate as false
- Any other number evaluates as true

For string, any date or any time datatypes:

- An empty string evaluates as false
- Any other string, date or time evaluates as true

For the boolean datatype:

- The evaluation returns the inverse value

**Parent topic:** [Mapping Function Reference](#)

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## Number function

---

The **Number** function changes the datatype of the parameter to number.

**Parameter:** datatype

Any number, string, date, time, or boolean value. This can come from a source node, the result of a function, or a value you specify.

**Returns:** number

The numeric value of the parameter or NaN (not a number). The conversion rules depend on the datatype of the parameter:

For number datatypes:

- NaN for NaN, positive infinity or negative infinity

- The same number for any other value

For string, any date, or any time datatypes:

- The corresponding number if the string is in any of these formats, where n represents any set of digits:

n or -n

n. or -n.

n.n or -n.n

.n or -.n

NaN for any other value

For the boolean datatype:

- 'true' evaluates to 1
- 'false' evaluates to 0

**Parent topic:** [Mapping Function Reference](#)

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## Padding String function

---

The **Padding String** function returns a padding string of the specified length and characters. Padding strings are used in alignment functions.

**Parameter:** number

The total length to make the padding string. This can come from a source node, the result of another function, or a value you specify.

**Parameter:** [string]

One or more characters to use to build the padding string. If you use multiple characters and the length of the padding string is not an even multiple, these characters are truncated at the end of the string to fit the overall length. This can come from a source node, the result of another function, or a value you specify. If you omit this parameter, it defaults to the space character.

**Returns:** string

The string to use for padding.

**Parent topic:** [Mapping Function Reference](#)

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## Position function

---

The **Position** function is used with conditions to represent the index to the current node within the set of its siblings. The function works only within the context of a recurring node and has no parameters.

**Returns:** number

The index or number identifying the position of the current node within the set of its siblings.

**Parent topic:** [Mapping Function Reference](#)

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## Read Date String function

---

The **Read Date String** function converts a string (that contains a date and time) to the XML Schema data type: xs:dateTime.

### Purpose

---

**Parameter:** string

The date and time as a string.

**Parameter:** string

This string defines the format of the date and time string of the first parameter. For example, the format string could be equal to MM/dd/yyyy. For more information about the supported date and time pattern strings see SimpleDateFormat class in the Sun J2SE 1.4.2 Javadoc: <http://www.science.uva.nl/ict/ossdocs/java/jdk1.3/docs/api/java/text/SimpleDateFormat.html>.

Pattern Letter	Description	Example1	Example2
G	Era Â designation	AD	BC
y	Year	2004	2001
M	Month in a year	April	04
w	Week in a year	12	24
W	Week in a month	3	1
D	Day in a year	234	333
d	Day in a month	13	20
F	Day of week in a month	1	3
E	Day in a week	Monday	Friday
a	AM or PM designation	AM	PM
H	Hour in a day - a number between 0 and 23	12	13
k	Hour in a day - a number between 1 and 24	14	23
K	Hour in AM or PM - a number between 0 and 11	0	10
h	Hour in AM or PM - a number between 1 and 12	11	12
m	Minute in an hour	20	50
s	Second in a minute	10	30
S	Milliseconds	224	338
z	Time zone in General time zone designation	PDT	EDT
Z	Time zone in RFC 822 time zone designation	-0300	+0200

**Parameter:** string Â (Optional)

This string defines the locale. For example, the English United States locale is defined with the following string: en\_US.

The locale string can be defined by any of the following formats:

- LANGUAGE
- LANGUAGE\_COUNTRY
- LANGUAGE\_COUNTRY\_VARIANT

Where LANGUAGE represents a two letter code as defined by the ISO-639 standard, COUNTRY represents a two letter code defined by the ISO-3166, and VARIANT represents a vendor or browser-specific code, for example WIN for Windows.

This parameter is optional.

To add this parameter:

1. Drop the Format Date String function into the middle pane of the Mapping Editor.
2. Double-click the function. The Function Properties pane opens.
3. Click Add. The Locale input parameter shows in the list of parameters.

**Returns:** dateTime

The date and time as an XML Schema data type: xs:dateTime is returned. For example, if the Read Date String function was run with the following input parameters:

date and time string: 02/22/2005/12/20/44

format string: MM/dd/yyyy/HH/mm/ss

A dateTime representing February 22, 2005 at 12:20 and 44 seconds is returned from Read Date String Function.

**Parent topic:** [Mapping Function Reference](#)

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## Replace function

---

The **Replace** function replaces individual characters with other individual characters.

The replacement is done at the individual character level and not the string level. Every occurrence of a character is replaced with specified replacement character as shown in the following example:

- list of characters to be replaced is equal to 'abc'
- list of replacement characters is equal to 'ABC'
- input string is equal to 'aWWWWbYYYYcPPPPabc'

The result string is equal to "AWWWBYYYYCPPPABC" because the replacement is done at the character level - every character is replaced. (If the replacement was done at the string level the resulting string would be equal to 'aWWWWbYYYYcPPPPABC'.)

**Parameter:** input

The string to search for characters to replace. The value for this parameter can be provided by a source node, the result of another function, or a value you specify.

**Parameter:** fromChars

A list of the character or characters to be replaced. If you need to replace several characters, they should be listed without any separation. The value for this parameter can be provided by a source node, the result of another function, or a value you specify.

**Parameter:** toChars

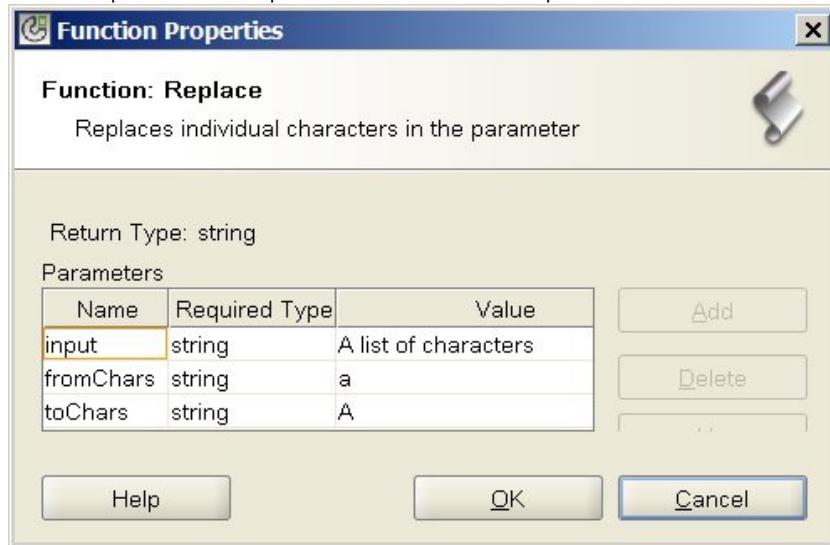
A list of character or characters to use as replacements. List the replacement characters in this parameter in the same order as characters to be replaced in the fromChars parameter because the first character from the fromChars parameter is replaced by the first character in toChars parameter and so on. For more information, see Example 2. The value for this parameter can be provided by a source node, the result of another function, or a value you specify.  
Note: You can not directly replace a single character with an empty string because the toChars parameter cannot equal an empty string - a string with no characters. For a workaround, see Example 3.

**Returns:** string

The result of replacing all occurrences of characters in the second parameter (fromChars) that are found in the first parameter (input) with the matching characters in the third parameter (toChars).

## Example 1

This example shows a simple one-to-one character replacement as shown in the following figure:



The run-time result of running this function is the following string:

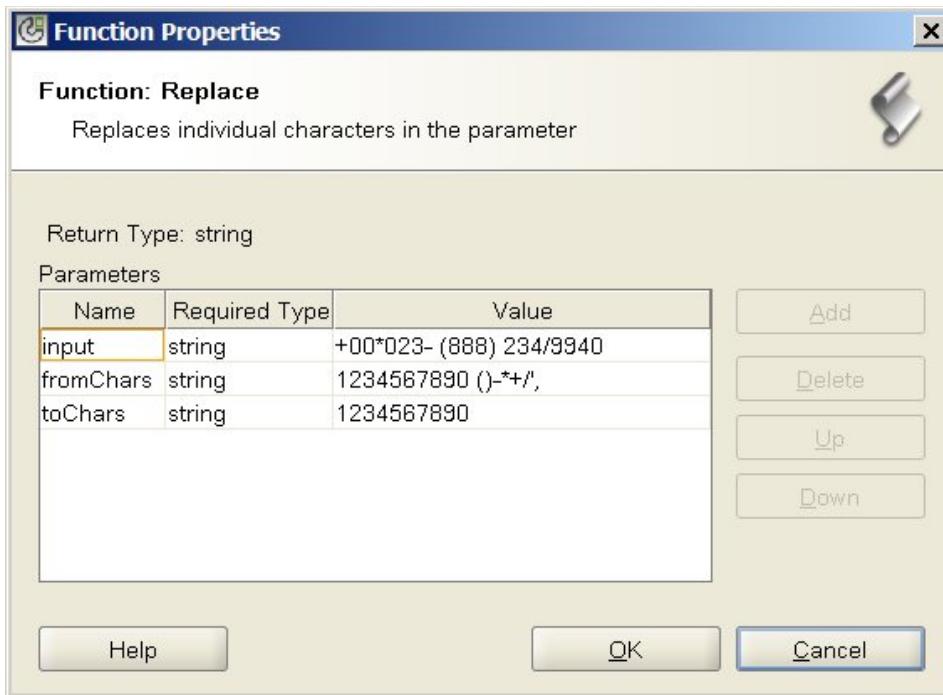
A list of chArActers

All lowercase a characters are replaced with uppercase A characters.

Note: In this example, the input parameter is hardcoded to a specific value. Typically this value is supplied by a source node in a map.

## Example 2

In this example, the first character from the fromChars parameter is replaced by the first character of the toChars parameter, the second character from the fromChars parameter is replaced by the second character of the toChars parameter, and so on. The replacement of multiple characters is shown in the following figure:



In this example, the non-numeric characters (specified at the end of the fromChars parameter) are removed from the phone number string. All the numeric characters are replaced with the same numeric character; for example, the 1 character is replaced by the 1 character. The other non-numeric characters at the end of the fromChars do not have a replacement character specified in the toChars, so they are removed from the returned string.

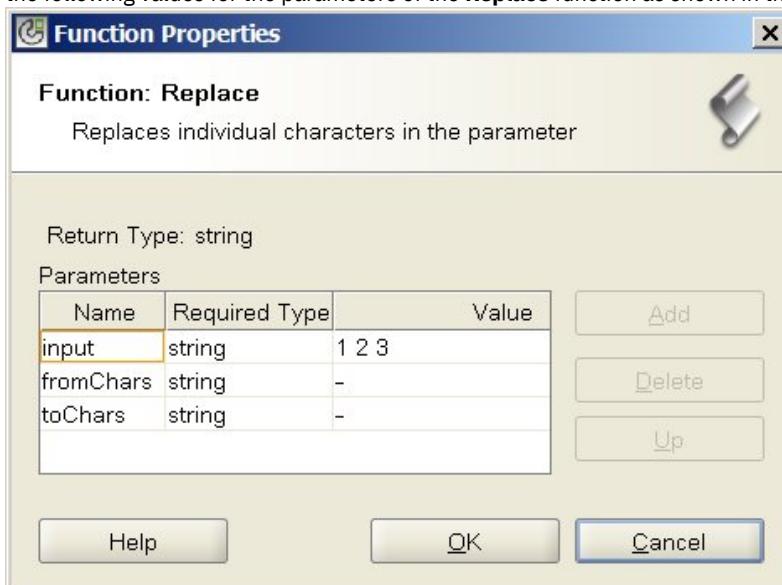
The run-time result of running this function is the following string:

000238882349940

Note: In this example, the input parameter is hardcoded to a specific value. Typically this value is supplied by a source node in a map.

### Example 3

This example shows a workaround to the limitation that you cannot replace a single character with an empty string. This limitation exists because the toChars parameter cannot be set to an empty string - a string with no characters. You can workaround this limitation by supplying a dummy character like a hyphen (-) that is not found in the input parameter. For example, you could specify the following values for the parameters of the **Replace** function as shown in the following figure:



In this example, the input parameter is equal to '1 2 3' (1, space, 2, space, 3), the fromChars parameter is equal to '-' (hyphen, space), and the toChars parameter is equal to '-' (hyphen). During run time, the **Replace** function with these values strips the spaces from input parameter and the run-time result is the following string:

Attention: When you specify the strings in the Value field of the Function Properties dialog box, do not enter the quotes. Enter just the hyphen and the space and not the quote characters.

Note: In this example, the input parameter is hardcoded to a specific value. Typically this value is supplied by a source node in a map.

**Parent topic:** [Mapping Function Reference](#)

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## Replace String function

---

The **Replace String** function replaces individual characters or a string with other individual characters or string.

**Parameter:** input

The string to search for characters to be replaced. The value for this parameter can be provided by a source node, the result of another function, or a value you specify.

**Parameter:** pattern

A regular expression pattern that needs to be replaced. The value for this parameter can be provided by a source node, the result of another function, or a value you specify.

**Parameter:** replace

Any substring within the input that matches the pattern will be replaced with the Replace String. The value for this parameter can be provided by a source node, the result of another function, or a value you specify.

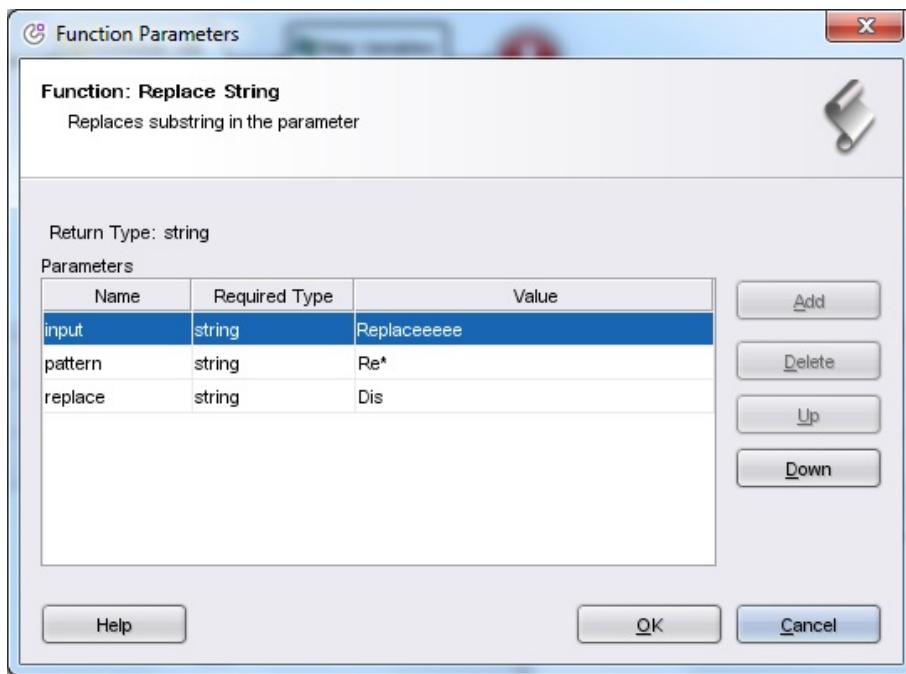
**Returns:** string

The result of replacing all occurrences of pattern that are found in the first parameter (input) with the matching string in the second parameter (pattern).

## Example

---

This example shows a simple replacement of a substring matching a regular expression in pattern parameter, as shown in the following figure:



The runtime result of running this function is the following string:

Replaceeeee

The string that matches the pattern with the value `Re*` will be replaced by the replace string `Dis`.

Note: In this example, the input parameter is hardcoded to a specific value. Typically this value is supplied by a source node in a map.

**Parent topic:** [Mapping Function Reference](#)

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## Round function

---

The **Round** function rounds a number to the closest integer.

**Parameter:** number

The number to be rounded. This can come from a source node, the result of another function, or a value you specify.

**Returns:** number

The closest integer to the parameter, rounding up if two integers are equally close. This can come from a source node, the result of another function, or a value you specify.

**Example:**

- `round(4.2) = 4`
- `round(4.5) = 5`

**Parent topic:** [Mapping Function Reference](#)

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## Starts With function

---

The **Starts With** function determines whether or not the first parameter begins with the characters in the second parameter.

**Parameter:** string1

The string to test. This can come from a source node, the result of another function, or a value that you specify.

**Parameter:** string2

The beginning string to test for. This can come from a source node, the result of another function, or a value that you specify.

**Returns:** boolean

True or false indicating whether the first parameter begins with the second parameter.

**Parent topic:** [Mapping Function Reference](#)

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## String function

---

The **String** function changes the datatype of the parameter to string.

**Parameter:** datatype

Any string, boolean, date, or numeric datatype. This can come from a source node, the result of another function, or a value that you specify.

**Returns:** string

The result of changing the parameter to string. The conversion rules depend on the datatype of the parameter:

- For boolean datatypes, returns the string *true* or *false*
- For date or time datatypes, returns the date or time as a string in the specific format for that datatype, such as '2003-01-20T05:00:00' for a datetime datatype.
- For number datatypes, this returns:
  - 'NaN' if the value is NaN (not a number)
  - '0' if the value is positive or negative zero.
  - 'Infinity' or '-Infinity' if the value is positive or negative infinity (respectively).
  - The corresponding numeral, with a minus sign if negative and no leading zeroes. Decimal values have at least one numeral before the decimal point and as many decimal places as needed.

**Parent topic:** [Mapping Function Reference](#)

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[Feedback](#) | [Notices](#)

## Substring function

---

The **Substring** function extracts a portion of the parameter based on the specified character placement.

**Parameter:** string

The string to extract from. This can come from a source node, the result of another function, or a value you specify.

**Parameter:** number1

The position of the first character to extract. Characters are numbered in the string beginning from 1.

**Parameter:** [number2]

The total number of characters to extract. If you omit this parameter, it defaults to the length from the starting position to the end of the first parameter.

**Returns:** string

The substring for the specified character places.

### Example

---

```
substring('abcde', 3, 2) = 'cd'
```

**Parent topic:** [Mapping Function Reference](#)

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## Substring After function

---

The **Substring After** function extracts all the characters in a string starting after the first occurrence of a specified substring (one or more characters) through the end of the string.

**Parameter:** string

The string to extract a substring from. This can come from a source node, the result of another function, or a value you specify.

**Parameter:** string

The character to use as a starting point for the extraction. The first occurrence of the character is used as the starting point. This parameter can come from a source node, the result of another function, or a value you specify.

**Returns:** string

A substring of the first parameter which starts after the first occurrence of the specified start string through the end of the string. If the start string is not present, returns an empty string.

### Example

---

```
substring-after('12/31/1999', '/') = '31/1999',
```

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## Substring Before function

---

The **Substring Before** function extracts all the characters in a string starting at the beginning up to the first occurrence of a specified substring (one or more characters).

**Parameter:** string

The string to extract a substring from. This can come from a source node, the result of another function, or a value you specify.

**Parameter:** string

The characters to use as the ending point for the extraction. The first occurrence of these characters is used as the ending point. This can come from a source node, the result of another function, or a value you specify.

**Returns:** string

The substring in the first parameter starting at the beginning up to the first occurrence of the specified end string. If the end string is not present, this returns an empty string.

### Example

---

substring-before('12/31/1999', '/') = '12'

[Parent topic: Mapping Function Reference](#)

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[Feedback](#) | [Notices](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_SubstringBefore.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_SubstringBefore.html)

## Subtract function

---

The **Subtract** function returns the difference of the first parameter less all subsequent parameters.

**Parameter:** number1

The number to subtract from. This can come from a source node, the result of another function, or a value that you specify.

**Parameter:** number2,, [number3-999]

The numbers to subtract. These can come from source nodes, the results of other functions, or values that you specify. You can specify multiple parameters here, but at least one parameter is required.

**Returns:** number

The difference of the two parameters. If either parameter is not a number, returns NaN (not a number).

### Example

---

number 1 = 42

number 2 = 7

number 3 = 8

returns: 27

**Parent topic:** [Mapping Function Reference](#)

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[Feedback](#) | [Notices](#)

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## Sum function

---

The **Sum** function determines the sum of values in the numeric node, sets of numeric nodes, or numbers in parameters.

**Parameter:** input, input ...

The numeric nodes to add. These can come from recurring or nonrecurring source nodes, the results of other functions, or values that you specify.

You cannot specify a default value (or constant) for the input parameters of this function but you can specify a variable with a default value and then pass that variable as an input parameter to this function. ▶ For more information see [Specifying Default Values for Functions that Allow Recurring Nodes as Input](#).

Attention: In the Mapping Editor, if you chain together a recurring source node, a function that does not support recurring nodes, and then map that result to this function, during run time you might get an unexpected result. ▶ For more information see [Limitations in Combining Other Math Functions or Literals](#)

.

**Returns:** number

The total sum of all parameters. If any parameter is a nodeset, the total includes values for every node in the set. If any parameter is not a number or a numeric node set, returns NaN (not a number).

**Parent topic:** [Mapping Function Reference](#)

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[Feedback](#) | [Notices](#)

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## Trim function

---

The **Trim** function trims all leading and trailing spaces and replaces continuous sets of white space characters by a single space.

The string value of the parameter is normalized, as described in the following steps:

1. All tabs, carriage returns, and line feeds are replaced with spaces. ▶
2. Contiguous sequences of spaces are reduced to a single space.
3. Trailing and leading spaces are removed.

**Parameter:** string

The string to trim and normalize. This can come from a source node, the result of another function, or a value you specify

**Returns:** string

The trimmed and normalized parameter.

Examples:

Input String Equals...	The Trim Function Returns...
' The string to trim and normalize. '	'The string to trim and normalize.'
' first line second line third line' third line '	'first line second line third line'

**Parent topic:** [Mapping Function Reference](#)

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## Uppercase function

---

The **Uppercase** function converts all lowercase characters to the corresponding uppercase character.

**Parameter:** string

The string to convert. This can come from a source node, the result of another function, or a value you specify.

**Returns:** string

The converted string.

**Parent topic:** [Mapping Function Reference](#)

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## Glossary

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- [Glossary](#)

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## Glossary

---

## A

### Activity

A complete, functional unit of processing within an orchestration. Activities include flow-control (logic) activities; data activities to facilitate consumption and transmission of data; and activities that enable integration with database systems, enterprise systems, Web servers, email servers, and other systems. An orchestration comprises a series of activities.

### Assets

Supplemental configuration files, scripts, or other materials associated with a specific activity. For example, the buffer table scripts created for a database insert activity are assets. Assets are controlled by the Web Management Console (WMC). Access privileges to assets can be given to users beyond the users of the WMC. For example, DBAs can be given privileges to the assets associated with a database activity so that they can create the required tables or triggers.

## B

### Buffer table

An auxiliary table used in conjunction with various database activities, such as the single-table insert, update, or delete database activities. When you configure one of the database DML (data manipulation language) activities, Studio generates a SQL script that can be used to create the appropriate trigger on the database table; the buffer table gets populated when the triggering event (INSERT, UPDATE, DELETE) occurs. The buffer table provides the means to capture database changes and initiate processing by the orchestration.

## C

### Cast Iron® Studio

An integrated development environment (IDE) for creating, configuring, and publishing integration projects and the orchestrations they comprise. Studio projects run on the WebSphere® Cast Iron Appliance.

### Command-line interface

A text-based alternative to the Web Management Console (WMC) for configuring, managing, and querying an Integration Appliance.

### Control table

A database table that facilitates using database endpoints in integrations. As it does with buffer tables, Studio generates scripts to create control tables that can be used to ensure that inserts, updates, and deletes to specific tables occur once and only once.

### Copy parameters

Copy creates new default orchestration variables that match the output from the parameters.

## D

### Deploy

Create an instance of an integration project (instantiate) on an Integration Appliance.

### Document

Any of the XML Schema files, DTDs, and other configuration files that comprise integration projects.

### Dynamic delimiter

A delimiter that is obtained from within the fields of the message itself, such as an HL7 PID (patient ID) message header that denotes the beginning of a new record in a file containing a batch of electronic health records.

## E

### Empty Placeholder

Appears in activities that have multiple branches as an initial placeholder for the activities in that branch. Dropping other activities on this icon removes it.

### Endpoint

Represents the properties of an external system, such as a database server, FTP server, email system, or enterprise application that is either the source of data to the Integration Appliance or the target of processing by the Integration Appliance.

## F

### For Each

A function that iterates over a message structure.

### Flat File

A file containing non-XML data. Flat Files are typically of two types: delimited, in which a comma, tab, white space, or other delimiter is used to separate variable-length fields and records; or positional, in which fields and records have a fixed width.

### Flat File Schema

Defines how to interpret a specific set of Flat Files. Cast Iron Studio creates Flat File Schema (XML Schema) based on the configuration you define in the Flat File Schema Editor. A Flat File Schema is used by the Read Flat File activity to convert a source Flat File into XML.

## Function

String, mathematical, and miscellaneous functions provided by Studio that you can use in defining processing in your orchestrations. In addition to the pre-built functions, Studio lets you build your own custom functions and add lookup tables.

## I

### Integration project

The various inputs, outputs (endpoints), mapping and schema definitions (transformations, message formats), orchestrations, and configuration information that comprise an integration solution as designed in Studio and deployed to the Integration Appliance.

## J

### Job

A specific run-time instance of an orchestration.

## M

### Map

A component that lets you bind input parameters to variables, and variables to the orchestration. Many Studio activities contain embedded maps that you must configure at design time, in the context of an orchestration, to define how actual parameters should map to variables, and how the variables should be processed in the orchestration. In addition to the embedded activity maps, Studio has a stand-alone Map Variables activity that can be used to bind any type of input and output to the orchestration

## N

### Node

All data input to or output from the Integration Appliance is materialized in Studio as a series of nodes, as in a tree-like, hierarchical structure. In many cases, the nodes represent the structure and content of an XML document, but in many cases they don't (e.g., rows in a database table are displayed as nodes). Nodes in Studio convey information about structure; the type of content that can be supported; or additional characteristics of the data.

### Notification policy

Applies across an entire orchestration. Rules are based on event levels from 0 (no logging) to 9 for complete logging information.

## O

### Orchestration

The specific sequence of processing activities (such as data mapping, transformation, and control logic activities), endpoints, and data types defined and configured using Studio and deployed to run on the Integration Appliance.

## P

### Parameter

A value passed to an activity or to an orchestration. For example, Filename and data are two of the parameters that can be passed from an FTP endpoint to an orchestration.

### Parameterized query

A database SQL statement that contains input or output database parameters. The **Execute Query** activity supports parameterized queries.

### Parse

The converse of serialize. To convert to constituent pieces according to some established rules.

### Pick

An activity that chooses from two or more alternatives. Typically used to start an orchestration, the **Pick** activity can support either synchronous or asynchronous messaging.

### Project

An integration project defined and created using Cast Iron Studio. Each project has a properties file (filename.sp3) and several additional metadata files and folders that comprise all integration elements - orchestrations, endpoints, XML schemas, flat files - and their specific configuration (variables, parameters)

### Publish

Copy all project files from Studio to an Integration Appliance or to an intermediate staging area, such as a shared directory on a file server, for subsequent runtime configuration and deployment to a specific environment. The Publish process encompasses

validating the project; creating a .par file of project configuration documents; and sending the package to the Integration Appliance specified.

## R

### Raw message

The configuration that defines the character encoding for raw messages

### Record identifier

A special field that delimits records in certain types of flat files, such as EDI (electronic data interchange) or HL7 (Health Level 7) files. For example, an HL7 PID (patient ID) number is a record identifier.

### Repetition delimiters

A delimiter in a flat file that is used when the data lacks a unique value, such as record ID, to distinguish one record from another.

### Replace

Appears in activity branches as an initial placeholder for the endpoint activity to receive a message for that branch. Dropping a **Receive endpoint** activity on this icon removes it.

### Reply

Sends an acknowledgement when it receives a message.

### Repository

Persistent storage for various types of data. Cast Iron Appliance has a configuration repository and a message repository.

## S

### Serialize

The converse of parse. Serialization assumes that the data is in XML format

### Stored procedure

A functional code unit that resides in a database and is started explicitly by name. Stored procedures can be used to populate buffer tables when specific insert, update, or delete activities occur on a particular database table.

### System store

A repository containing Appliance configuration information. Same as configuration repository.

## T

### Terminate

Stops orchestration processing.

### Toolbox

The five-tab-set of Project, Activities, Variables, Functions, and Verify available in the right corner of Studio. These tabs provide access to all the entities you need to create new projects, create new orchestrations within projects, and develop the processing logic.

### Trigger

A type of database stored procedure that is called implicitly when a triggering event occurs such as an INSERT, UPDATE, or DELETE on a table.

## V

### Variable

Used to pass data values processed by an orchestration. Variables are used by maps to identify the source and target. Some Activities create variables automatically.

## W

### While Loop

Initiates and continually processes any children activities for as long as a specified condition is true.

**Parent topic:** [Glossary](#)

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[Feedback](#) | [Notices](#)

## Getting started with Cast Iron Express

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By using IBM® WebSphere® Cast Iron® Express®, you can quickly sign up for a free trial account, create integrations, and manage your Cast Iron Express environment securely. You can also analyze your integration usage by using the analytics provided.

### Why use Cast Iron Express?

---

WebSphere Cast Iron Express is a purpose-built solution for you to quickly create, define, run, and manage integration projects. Within minutes, you can create integrations between your salesforce.com account and other data sources.

The emphasis is on speed and simplicity, therefore, integrations are defined by using a configuration approach. You do not code the integration.

When complete, you can run your integration to move data in and out of salesforce.com, from remote databases, local files, and Dropbox.

At any time, you can extend the capability of your Cast Iron Express account by selecting one or more of the available add-on function packages.

You can invite other users to your Cast Iron Express account. You can also monitor and administer your account.

To Sign Up, go to the WebSphere Cast Iron Express home page <https://express.castiron.com/express/>.

### What do you need to know?

---

Depending on your role, there are different tasks that are outlined in the following documentation. Each task is explained in sequence, starting with how to register for a Cast Iron Express account.

For security reasons, your session times out if you leave your user name signed in and there is no activity.

Some of the Cast Iron Express function uses pop-up windows. Therefore, you might want to prevent pop-up windows from being blocked in your web browser.

Before you start, check that the browser you are using is supported and meets the required minimum levels:

- Google Chrome 18
- Mozilla Firefox 10
- Windows Internet Explorer 8

You can select the following tasks to learn about Cast Iron Express. Then you can start to create and manage your integrations, invite other users to your account, and monitor the activity within your account.

To learn how to create an integration from a local file to your salesforce.com account, see [Tutorial: Creating a local file to salesforce.com integration](#).

- [Registering an account](#)  
You can register for an IBM Cast Iron Express account by clicking Sign Up on the Cast Iron Express home page.
- [Help with getting started](#)  
When you sign in with the user name and password that you received, the Getting Started with Cast Iron Express view opens.
- [Managing your account profile](#)  
You can add details, or change your current details by using the Manage Profile view. You can also change your account password.
- [Managing users](#)  
Administrators can manage the users for an Cast Iron Express account. Only administrators can add new users to an account, and remove existing users that no longer require access.
- [The Cast Iron Express Help Center](#)  
When you sign in to Cast Iron Express, a Help Center which contains a series of useful resources is available to help you to understand and use the function available in the product.
- [Adding function to your Express account](#)  
You can customize your Cast Iron Express account by requesting extra function. By selecting one or more of the available function packages, you can increase the capability of your account.

- [Keeping up to date with Cast Iron Express](#)

You can find out What's New in Cast Iron Express, by looking at the Cast Iron Express Help Center.

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 Last updated: Thursday, 2 June 2016

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## Registering an account

---

You can register for an IBM® Cast Iron® Express® account by clicking Sign Up on the Cast Iron Express home page.

You can register for an IBM Cast Iron Express account by going to <https://express.castiron.com/express/>.

There is no commitment to buy the product. The registration link from the Cast Iron Express home page sets up a free trial account. You can extend the function within your account by requesting the available add-on packages. For more information, see [Adding function to your Express account](#).

When registering an account, you must identify a single user for login purposes. Every Cast Iron Express account has one user with administrator privileges. This user is named *admin* and is created when you first complete your registration. The admin user can invite additional users to the same Cast Iron Express account.

## Procedure

---

1. With the Cast Iron Express home page open, click Sign Up. The Sign Up page opens.
2. Complete all of the fields by entering the requested details. If you omit a field, you are prompted to enter the information.
3. Read the Terms of Use. When you submit your registration request, you are agreeing to the Cast Iron Express terms.
4. When complete, click Sign Up. A confirmation message is displayed which shows that an email is being sent to the registered address.
5. Go to your email account and open the Welcome to IBM WebSphere Cast Iron Express note. To confirm the registration and activate your account you must click the link provided. An account verification message is displayed.
6. Following your confirmation, two further emails are sent. One note contains your *admin@YourCompanyName* Cast Iron Express user name. The other note contains your password. The *admin* user ID has the authority to create and define integrations, to invite other users to access the account, and manage the company Cast Iron Express account.
7. Sign in with the provided credentials to begin using your free trial account.

Restriction: Cast Iron Express limits users to a single trial account per company. If you receive an error message which indicates that the company name you provided is already registered, please contact the administrator at your company. The administrator can invite additional users within the existing account.

**Parent topic:** [Getting started with Cast Iron Express](#)

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## Help with getting started

---

When you sign in with the user name and password that you received, the Getting Started with Cast Iron Express view opens.

To help you to understand the function available within your Cast Iron® Express® account, you can click each of the options displayed in the Getting Started view.

You can access the Getting Started page, at any time, by clicking the Help icon in the toolbar. The following screen capture shows the Help icon and the various help options:



## Procedure

---

1. Sign in with the user name and password that you received from IBM® Cast Iron Express. The Getting Started with Express view opens.
2. In the Getting Started with Express view, you can click one of the three options displayed:
  - o Create to quickly define and run your integrations.
  - o Monitor to open the dashboard page and analyze your integrations in real time. You can also check for any reported problems.
  - o Extend to add more function to your account and extend the capability of your integrations.

You can now start to define your Cast Iron Express environment.

**Parent topic:** [Getting started with Cast Iron Express](#)

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## Managing your account profile

---

You can add details, or change your current details by using the Manage Profile view. You can also change your account password.

Sign in to your Cast Iron® Express® account.

## Procedure

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1. Click your sign-in name in the upper right of the page to display the menu options. Click Manage Profile. The following screen capture shows the menu.



2. You can add or update the details in the following fields:

- o First Name
- o Last Name
- o E-mail
- o Country
- o Phone
- o Job Title

3. To change your password, click Change Password. You must provide your existing password before entering your new password.

The typical password rules apply. Passwords must have a minimum of eight characters and can contain special characters.

4. Optional: If you want to receive the Cast Iron Express newsletter, you can select Sign me up for the Cast Iron Express Newsletter and let IBM contact me with special offers.

5. To modify your profile, click Save. To cancel the addition or amendment, click the close icon .

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## Managing users

---

Administrators can manage the users for an Cast Iron® Express® account. Only administrators can add new users to an account, and remove existing users that no longer require access.

By default, when you register for a Cast Iron Express account, the Manage Users function is disabled. To use this additional function, click Add-ons and select the *Collaboration* package. For more information, see [Adding function to your Express account](#).

Complete the following steps to invite one or more users to access your Cast Iron Express account.

### Procedure

---

1. To open the Manage Users page, click Manage Users.
2. In the Add New Users section, enter the email address of the user that you want to add to your Cast Iron Express account. If you want to invite several people, separate each email address with a comma.
3. Optional: To customize the email that is sent to the users, select Customize email, and edit the content in the text area provided.
4. When you are finished, click Send. A message is displayed to confirm that an email is being sent.
5. The people that you invite receive a note which includes a link that guides them through the sign-up process. The first time they sign in the license agreement is displayed. The invited author must click Accept to complete the sign-in process.
6. After the new users sign in, you can see the details of their last login to Cast Iron Express in the Active Users section.
7. If required, you can delete a user by clicking the delete icon next to the Last Login field.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.omniapps.doc/intro\\_ManagingUsers.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.omniapps.doc/intro_ManagingUsers.html)

## The Cast Iron Express Help Center

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When you sign in to Cast Iron® Express®, a Help Center which contains a series of useful resources is available to help you to understand and use the function available in the product.

The Cast Iron Express Help Center contains the following information:

- What's New details
- A series of short video tutorials
- Documented tutorials
- A frequently asked questions (FAQ) section

You can open the Help Center by clicking the Help icon, at any time. The following screen capture shows the Help icon and menu options:



The Help Center section can be closed by clicking the close icon in the upper right of the page.

You can also access the Cast Iron Express Information Center from the help menu options.

**Parent topic:** Getting started with Cast Iron Express

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.omniapps.doc/intro\\_UsingTheHelpSection.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.omniapps.doc/intro_UsingTheHelpSection.html)

## Adding function to your Express account

---

You can customize your Cast Iron® Express® account by requesting extra function. By selecting one or more of the available function packages, you can increase the capability of your account.

Sign in to your Cast Iron Express account.

Depending on which additional function you select, you might be charged for some of the function packages. You are redirected to the IBM® Software and services online site, where you can add the Cast Iron Express product item to your basket. When prompted, sign in with your IBM user ID (which must be configured separately from your Cast Iron Express sign-in name).

At the end of the order process, record the confirmation number for future reference.

Important: The payment system opens in a new window. Therefore, you must ensure that your web browser does not block pop-up windows.

### Procedure

---

1. To see a list of available packages, click Add-ons.

The available function packages include:

- Mapping Functions. To define transformations to manipulate the data, mapped from the source endpoint before it populates the target endpoint.
- On-premise Support. To provide continuous synchronization between your local and remote systems.
- Collaboration. To invite other users to help create and manage integrations in your Cast Iron Express account.

Each package details the function included and whether there is a free trial. You can use the one-off free trial to experience how the function can enhance your business applications.

2. To select all of the extra function, click Try All for 90 Days. To continue to use the function when the free 90 day trial finishes, you must purchase the package.
3. To select individual packages, click Free for 90 Days for the specific function that you want to use. When you choose only some of the packages, you cannot then select Try All for 90 Days.
4. If relevant, complete the purchase on the IBM Software and services online site.
5. Submit your new function request.

The Add-ons view shows the status of your request, your current package usage, and indicates the time remaining for the free trials.

**Parent topic:** Getting started with Cast Iron Express

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.omniapps.doc/intro\\_upgradingbyaddingmodules.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.omniapps.doc/intro_upgradingbyaddingmodules.html)

## Keeping up to date with Cast Iron Express

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You can find out What's New in Cast Iron® Express®, by looking at the Cast Iron Express Help Center.

You can see details of the latest features as they are added. To open the Help Center, click the option displayed in the menu under the Help icon. The following screen capture shows the Help icon and menu:



**Parent topic:** [Getting started with Cast Iron Express](#)

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[Feedback](#) | [Notices](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.omniapps.doc/intro\\_keepinguptodatewithcastironexpress.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.omniapps.doc/intro_keepinguptodatewithcastironexpress.html)

## Integrating with Cast Iron Express

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- [Supported Source and Target systems](#)

Cast Iron® Express® provides the capability to integrate between databases, FTP servers, local files, Dropbox, and salesforce.com accounts.

- [Managing secure connectors](#)

To communicate with on-site systems such as databases and FTP servers, Cast Iron Express provides the use of a secure connector. The secure connectors are managed from the Integrations page.

- [Creating integrations](#)

Integrations can be created in Cast Iron Express from the Integrations page.

- [Using the Integration editor](#)

You can use the Integration editor to customize all information about an integration.

- [Composite functions](#)

A composite function is a combination of two separate functions, where the output of one function is chained as input to a subsequent function. The following topics provide information on creating, editing, or deleting composite functions.

- [List of functions](#)

Cast Iron Express offers a selection of functions for use within mappings. These functions can be used to manipulate the field values being mapped, such as altering the content of strings, performing numeric operations on numbers, and manipulating date and time values.

- [Managing integrations](#)

Cast Iron Express displays a list of all of the integrations defined in an account on the Integrations page.

- [Monitoring integration activity](#)

You can use the Cast Iron Express Activities page to see details of all of the activity within your account.

- [Utilization Charts](#)

Utilization charts allow you to quickly identify the most active integrations and endpoints for a specific tenant. A summary of job successes and failures and a breakdown of integration activity is presented in a monthly and yearly chart.

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## Supported Source and Target systems

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Cast Iron® Express® provides the capability to integrate between databases, FTP servers, local files, Dropbox, and salesforce.com accounts.

### A complete list of the supported integration source and target pairs

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The following table outlines the various Source endpoints that you can select in Cast Iron Express. When you select your Source endpoint, only the Target endpoints that are supported for that specific Source endpoint are displayed.

Table 1. Selected Source endpoint and the corresponding supported Target endpoint

Selected Source endpoint	Supported Target endpoint
DB2®	• salesforce.com
MySQL	• salesforce.com
SQL Server	• salesforce.com
Oracle	• salesforce.com
salesforce.com	• DB2 • MySQL • SQL Server • Oracle • salesforce.com
FTP	• salesforce.com
Local File	• salesforce.com
Dropbox	• salesforce.com

- [Supported file types for FTP sources](#)

Cast Iron Express supports the use of FTP as a source for certain file types.

**Parent topic:** [Integrating with Cast Iron Express](#)

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## Supported file types for FTP sources

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Cast Iron® Express® supports the use of FTP as a source for certain file types.

The following file types are supported when you select FTP as a source endpoint:

- CSV files, where the first line of the file defines the field names for the remaining lines.
- Other text files, where the text content is made available as a single text field.
- Binary files, where the content is made available as a single binary field.

**Parent topic:** [Supported Source and Target systems](#)

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## Managing secure connectors

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To communicate with on-site systems such as databases and FTP servers, Cast Iron® Express® provides the use of a secure connector. The secure connectors are managed from the Integrations page.

By default, when you register for a Cast Iron Express account, the Secure Connector function is disabled. To use this additional function, click Add-ons and select the *On-premise Support* package. For more information, see [Adding function to your Express account](#).

When you open the Integrations page, the defined secure connectors are listed in the lower left area of the page. For each connector listed, you see the name, and the status of the connector.

You can delete any of the secure connectors by clicking the delete icon.

- [Creating a secure connector](#)  
You can create secure connectors from the Cast Iron Express Integrations page.
- [Installing a secure connector](#)  
You can install a secure connector on the host system.
- [Starting and stopping the secure connector](#)  
When you install a secure connect, menu items to start and stop the secure connector are added to your operating system in a group called Cast Iron Secure Connector 1.6.2.0.0.
- [Removing a secure connector](#)  
Secure connectors can be removed from the host system by first running the Stop Secure Connector item, followed by the Uninstall Secure Connector item.

**Parent topic:** [Integrating with Cast Iron Express](#)

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## Creating a secure connector

---

You can create secure connectors from the Cast Iron® Express® Integrations page.

By default, when you register for a Cast Iron Express account, the Secure Connector function is disabled. To use this additional function, click Add-ons and select the *On-premise Support* package. For more information, see [Adding function to your Express](#)

account.

## Procedure

---

1. With the Integrations page open, click the Add icon: .
2. Enter a unique and descriptive name for the secure connector.
3. Click Create.

The secure connector is created in the background, and when ready, it is displayed in the list of Secure Connectors.

Download the installation and configuration files and install the secure connector on the host system. For more information, see [Installing a secure connector](#).

**Parent topic:** [Managing secure connectors](#)

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## Installing a secure connector

---

You can install a secure connector on the host system.

Restriction: The host system must be on the same local network as the target system.

## Procedure

---

1. Log in to the host system, and go to <http://express.castiron.com> in a web browser.
2. Click the download icon next to the secure connector that you want to install:  A dialog box is displayed containing links to download the installation and configuration files for both Windows and Linux platforms, and an option to download just the configuration file itself.
3. Download the relevant files on to the host system and run the installation program. You are prompted during the installation for the configuration file.

**Parent topic:** [Managing secure connectors](#)

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## Starting and stopping the secure connector

---

When you install a secure connect, menu items to start and stop the secure connector are added to your operating system in a group called Cast Iron® Secure Connector 1.6.2.0.0.

You can find the menu items to start and stop the secure connector in your Start menu (Windows), or Applications menu (Linux).

Important: If you are running the secure connector on a Windows 7 system, run the secure connector as the administrator. Right-click the Start Secure Connector option and choose Run as Administrator.

When started, the secure connector communicates with your Cast Iron Express® account, and signals that it is running.

Tip: During the installation on a Windows system, the secure connector can be installed as a Windows service. Installing the secure connector as a Windows service means that you do not need to use the Start menu to start the secure connector.

## Procedure

---

When the secure connector is started, on the Cast Iron Express Integrations page click the Refresh icon  in the Secure Connectors section. The status changes to Running.

The refresh updates the secure connector list with the latest status.

**Parent topic:** [Managing secure connectors](#)

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## Removing a secure connector

---

Secure connectors can be removed from the host system by first running the Stop Secure Connector item, followed by the Uninstall Secure Connector item.

## Procedure

---

1. On the host system:
  - a. Stop the secure connector by using the Start menu option Stop Secure Connector.
  - b. Uninstall the secure connector by using the Start menu option Uninstall Secure Connector.
2. On the Cast Iron® Express® Integrations page:
  - a. Click the Delete icon  next to the relevant secure connector.
  - b. Click OK.

The secure connector is removed from your Cast Iron Express Integrations page.

**Parent topic:** [Managing secure connectors](#)

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## Creating integrations

---

Integrations can be created in Cast Iron® Express® from the Integrations page.

Sign in to your Cast Iron Express account and click Integrations.

## Procedure

---

1. Choose your Source from the list. Depending on your source endpoint, the Target list is filtered down to list only the supported systems.
2. Choose your Target.

3. Click New Blank Integration to create the integration and enter the Integration editor.

**Parent topic:** [Integrating with Cast Iron Express](#)

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## Using the Integration editor

---

You can use the Integration editor to customize all information about an integration.

You can provide a custom name for the integration by entering it in the text field in the upper section of the editor. You can click Save to save the integration changes. To close the integration editor without saving, click Close. An integration can be saved at any time, but the integration cannot be run until it is complete.

The Integration editor contains three large panels:

- Source
- Transformation
- Target

For more information about the configuring of Source and Target sections, see the following topics:

- [Configuring the connection](#)
- [Selecting an operation](#)
- [Selecting an object](#)
- [Selecting the fields](#)
- [Setting up your integration](#)

## Procedure

---

1. Select the Source section. The Source editor opens.

- Configure the Connection
- Select an Operation
- Select an Object
- Select the Fields

When the Source is configured, a tick is displayed to indicate that the step is complete.



2. Select the Target section. The Target editor opens.

- Configure the Connection
- Select an Operation
- Select an Object
- Select the Fields

When the Target is configured, a tick is displayed to indicate that the step is complete.



3. Create the Transformation

- Define the Mappings
- Define the Functions

When both the Source and Target endpoints are configured, the Integration editor displays a list of Source fields on the left side and a list of Target fields on the right side. Step 3 of the procedure creates the data transformation between the Source and Target by interacting with the Transformation section. For more information, see the following topics:

- [Defining the mappings](#)
- [Defining the functions](#)
- [Setting up your integration](#)

When the transformation is complete, the integration can be saved, then closed to return to the Integrations page. For more information about starting and stopping your new integration, see [Managing integrations](#).

- [Configuring the connection](#)  
You must provide the connection details of the system which the integration is going to connect to. The set of connection details must be given a name, which can then later be used to identify these connection details for reuse in other integrations.
- [Connecting to a MySQL database](#)  
To successfully connect to a MySQL instance, the relevant MySQL JDBC driver must be installed in to the secure connector.
- [Selecting an operation](#)  
The choice of operation determines how Cast Iron Express monitors and interacts with your Source and Target endpoints. Support for individual operations can vary between implementations. For example, FTP utilizes get and put operations, while salesforce.com supports the upsert and get updated operations.
- [Database trigger tables](#)  
When using a database system as a Source, Cast Iron Express requires a trigger table to be created within the database system.
- [Selecting an object](#)  
When a Source or Target is successfully connected, Cast Iron Express queries the system for the available objects with which it can work.
- [Selecting the fields](#)  
When an object is selected, Cast Iron Express automatically queries the Source or Target system to identify the fields within that object.
- [Using an external ID when connecting to salesforce.com](#)  
When connecting to salesforce.com, you can configure Cast Iron Express to use an external ID on an Upsert objects operation. You can also use external ID fields to relate target salesforce.com objects to other salesforce.com objects.
- [Filtering source objects](#)  
The Cast Iron Express filtering capability lets you control which records are passed from your source application to your integration, based on field values displayed in the Integrations page.
- [Setting up your integration](#)  
After the Source and Target endpoints are configured, you are ready to define the mappings. Understanding the Cast Iron guidelines for implicit conversion between data types is key to setting up your integration. Before proceeding, familiarize yourself with the information in this section.
- [Defining the mappings](#)  
When both the Source and the Target are configured, you are presented with a list of source fields on the left, a list of target fields on the right, and two columns of anchors. You define mappings by connecting these anchor points.
- [Defining the functions](#)  
Simple mappings can copy data from a source field and place it in the target field. However, sometimes more complex transformations are required. All mappings have an add function icon which is used to define functions.
- [Configuring functions](#)  
You can configure functions to meet your specific requirements. To do this, you edit source fields and parameters to add or remove sources or change the order in which they appear.

**Parent topic:** [Integrating with Cast Iron Express](#)

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## Configuring the connection

---

You must provide the connection details of the system which the integration is going to connect to. The set of connection details must be given a name, which can then later be used to identify these connection details for reuse in other integrations.

For on-premise systems such as databases and FTP servers, the connection details require a secure connector to be specified. For more information, see [Managing secure connectors](#).

When the connection details are complete, click Connect to connect to the system to validate the connection details. A message is displayed at the top of the Connection Details panel to indicate whether the connection was successful.

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## Connecting to a MySQL database

---

To successfully connect to a MySQL instance, the relevant MySQL JDBC driver must be installed in to the secure connector.

Attention: If Cast Iron® Express® detects that the secure connector does not have the driver available, an error message is displayed which contains information about how to install the driver.

### Procedure

---

1. Download the driver from [here](#).
2. Go to the machine where your Secure Connector is running and stop the Secure Connector.
3. Copy the file to *Secure Connector install root\lib\plugins* where *Secure Connector install root* is the directory in which the Secure Connector is installed. For example, C:\Program Files\IBM\Secure Connector.
4. Start the Secure Connector.

**Parent topic:** Using the Integration editor

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.omniapps.doc/integrations\\_ConnectingToAMySQLDatabase.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.omniapps.doc/integrations_ConnectingToAMySQLDatabase.html)

## Selecting an operation

---

The choice of operation determines how Cast Iron® Express® monitors and interacts with your Source and Target endpoints. Support for individual operations can vary between implementations. For example, FTP utilizes get and put operations, while salesforce.com supports the upsert and get updated operations.

Before selecting an operation, review the following information to ensure that the activity that you want to use, is supported by the specific endpoint that you are working with.

Table 1. FTP as a Source endpoint

Operation	Resulting activity
Poll directory	Monitors the chosen file for updates on a 30 second interval.

Table 2. Databases (MySQL, SQL Server, DB2®, Oracle) as a Source endpoint

Operation	Resulting activity
Get inserted rows	Retrieves newly inserted entries from the database table and triggers the integration.
Get updated rows	Retrieves newly modified entries from the database table and triggers the integration.
Get deleted rows	Passes newly deleted entries from the database table and triggers the integration.

Table 3. Databases (MySQL, SQL Server, DB2, Oracle) as a Target endpoint

Operation	Resulting activity
-----------	--------------------

<b>Operation</b>	<b>Resulting activity</b>
Insert rows	Creates database entries based upon the data flowing through the integration.
Update rows	Modifies database entries based upon the data flowing through the integration.
Delete rows	Deletes database entries based upon the data flowing through the integration.

Table 4. salesforce.com as a Source endpoint

<b>Operation</b>	<b>Resulting activity</b>
Get deleted objects	Passes newly deleted objects of the selected type from salesforce.com and triggers the integration.
Get updated objects	Passes newly modified objects of the selected type from salesforce.com and triggers the integration.

Table 5. salesforce.com as a Target endpoint

<b>Operation</b>	<b>Resulting activity</b>
Create objects	Creates object entries based upon the data flowing through the integration.
Update objects	Modifies object entries based upon the data flowing through the integration.
Upsert objects	Updates and/or inserts object entries based upon the data flowing through the integration.
Delete objects	Deletes object entries based upon the data flowing through the integration.

**Parent topic:** [Using the Integration editor](#)

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## Database trigger tables

When using a database system as a Source, Cast Iron® Express® requires a trigger table to be created within the database system.

When starting an integration which uses a table in a database for the first time, Cast Iron Express notifies the user that this trigger table needs to be created. An information dialog is displayed containing an explanation of what is required and two links. One link attempts to connect to the database, and automatically creates the trigger table on behalf of the user. To use this method means that the connection details configured in the integration include the required permissions within the database system to create the tables. If the configured user does not have the required permissions, a second link is displayed which makes available a DDL document for creating the required table.

This document link can be passed to the database administrator who can create the required table on behalf of the user.

Restriction: The Cast Iron Express buffer table uses the following field names:

- IH\_PK
- IH\_OPERATION\_NAME
- IH\_FLAG

Therefore, these field names are not supported when you create your own table because they clash with the trigger mechanism.

**Parent topic:** [Using the Integration editor](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.omniapps.doc/DatabaseTriggerTables.html>

# Selecting an object

---

When a Source or Target is successfully connected, Cast Iron® Express® queries the system for the available objects with which it can work.

Objects can be files on an FTP server, database schemas and tables, or salesforce.com objects. All available objects are represented as a tree structure for navigation to the intended object for the integration.

At any time, the Source or Target system might change. For example, a new custom object can be added to the connected salesforce.com account, a new table might be added to a database schema, or a new file uploaded to an FTP server.

## Procedure

---

1. To choose an object with which to work, select the object from the available list.
2. To refresh the list of objects, click the refresh icon  in the Available Objects section.

**Parent topic:** [Using the Integration editor](#)

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# Selecting the fields

---

When an object is selected, Cast Iron® Express® automatically queries the Source or Target system to identify the fields within that object.

Fields within an object can be:

- Records in a CSV file.
- Columns in a table.
- Fields in a salesforce.com object.

The fields are displayed in a list with check boxes next to each field name.

Note: When the source endpoint is an FTP server, you have extra options on the Available Fields panel, where you can specify how Cast Iron Express interprets the selected file. These options are:

- Separator character. This identifies the character used to delimit individual fields within the file.
- Quote character. This identifies the character used to enclose field values, that may span more than one line.
- File has header row checkbox. This determines whether Cast Iron Express processes the first row of the file as a header row.
- Number of footer rows. This determines the number of rows at the bottom of the file to be ignored. For example, if the file contains totals or summaries.

Some fields are marked as optional by the Target system and some are marked as required. For example, you must provide a name to create an Account object using salesforce.com. Cast Iron Express pre-selects these required fields and disables the check-box for that field to prevent de-selection. These fields are marked with an asterisk (\*) after their name.

Other fields may be optional but commonly used; Cast Iron Express pre-selects these fields to save time, but you can alter these selections.

Note: Select All and Clear All links are provided above the list of fields.

At any time, the Source or Target system may change; a new custom field may be added to the connected salesforce.com account, a new column may be added to a database table, or a new file format uploaded to an FTP server. Refresh the list of fields for a given object by clicking the refresh icon  in the Available Fields section.

Once field selections are complete, click the Done button.

The Source or Target is now completely defined and you are returned to the main integration overview. The Source or Target is marked as complete with a green tick 

**Parent topic:** [Using the Integration editor](#)

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## Using an external ID when connecting to salesforce.com

---

When connecting to salesforce.com, you can configure Cast Iron® Express® to use an external ID on an Upsert objects operation. You can also use external ID fields to relate target salesforce.com objects to other salesforce.com objects.

External IDs are used to identify objects in salesforce.com, based on identifiers or key values that originate in other systems. An external ID field can be added to salesforce.com objects by your salesforce.com administrator. For more information, see your salesforce.com documentation.

When a salesforce.com object is selected, Cast Iron Express automatically queries the target system to identify the fields within that object.

- [Using an external ID with the Upsert operation](#)

In salesforce.com, when an *Upsert* operation is selected, you can choose which external ID to use in the Available Fields section.

- [Using an external ID with related objects](#)

In salesforce.com, when a *Create* or *Upsert* operation is selected, you can use external ID fields to relate target objects to other objects. For example, a Contact object can relate to an Account object, based on the value of an external ID field defined in the Account object.

**Parent topic:** [Using the Integration editor](#)

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## Using an external ID with the Upsert operation

---

In salesforce.com, when an *Upsert* operation is selected, you can choose which external ID to use in the Available Fields section.

### Procedure

---

1. In the salesforce.com Target editor, select the Upsert objects option from the Operations menu.
2. In the Available Fields section, choose the required external ID from the Use as external ID menu.
3. Click Done.

**Parent topic:** [Using an external ID when connecting to salesforce.com](#)

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## Using an external ID with related objects

---

In salesforce.com, when a *Create* or *Upsert* operation is selected, you can use external ID fields to relate target objects to other objects. For example, a Contact object can relate to an Account object, based on the value of an external ID field defined in the Account object.

### Procedure

---

1. In the salesforce.com Target editor, select either Create objects or the Upsert objects option from the Operations menu.
2. In the Available Fields section, select the field which relates to the intended object. Those fields which contain a defined external ID display a selection list in the Type column. Select the required external ID field from the list.
3. Click Done.

**Parent topic:** [Using an external ID when connecting to salesforce.com](#)

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## Filtering source objects

---

The Cast Iron® Express® filtering capability lets you control which records are passed from your source application to your integration, based on field values displayed in the Integrations page.

For this task, you use the Integrations page to specify search criteria for what is retrieved from your source application. Each field in the Source area of the Integrations page has a filter icon displayed immediately next to it:

When you click a filter icon, a pop-up window is displayed, enabling you to set parameters that control the data processed by your integration. You can specify single or multiple filters on a source field. For example, instead of retrieving all current sales orders, you may want to retrieve only orders with values that exceed a specific amount and originate in another country.

### Procedure

---

1. To filter a source object, click an object in the Source area of the Integrations page. A list of fields related to the source object is displayed.
2. In the list of source fields, find the field that you want to filter and click the filter icon next to it. The Filters pop-up window is displayed. The field that you selected in the Integrations window is displayed in the Filters window.
3. In the **Add new filter** section of the Filters window, click the drop-down menu and select a filtering option.  
Available options are:
  - is equal to
  - is not equal to
  - is less than
  - is greater than
  - is in the range
4. In the text field, enter your filter parameters.
5. Click **Add**. The new filter is displayed in the shaded area of the Filters window.
6. To add additional filters to a source field, repeat the preceding steps.
7. To control how multiple filters are applied to a source field, use the Match which filters button. If you wish to have *any* of your filter parameters used on the source, click Any. If you want *all* of your filters to apply to the source field, click the Any button to toggle it to All.

8. When you are finished, click Close.

The filter icon on the Integrations page next to the source field is shaded green to indicate that a filter is defined.

**Parent topic:** [Using the Integration editor](#)

## Modifying filters

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You also use the Integrations page to modify an existing filter setting or to delete a filter.

### Procedure

1. Click the green filter icon that is next to the source field in the Integrations page. The Filters window is displayed.
  - a. To modify a specific filter, go to the filter definition and click Edit. The filter parameters are displayed. Use the drop-down menu and the text field to modify your filter settings. When you are finished, click Save.
  - b. To delete a filter, go to the filter that you want to delete and click the delete icon next to it.
2. Click Close to return to the Integrations page.

The modified filter is displayed in the shaded area of the Filters window. If you deleted a filter, it is removed from the Filters window and the filter icon next to the source field is no longer green in color.

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## Setting up your integration

---

After the Source and Target endpoints are configured, you are ready to define the mappings. Understanding the Cast Iron® guidelines for implicit conversion between data types is key to setting up your integration. Before proceeding, familiarize yourself with the information in this section.

When you use the Integration editor to define your mappings, you are presented with a list of source and target fields with two columns of anchor points. You define mappings by connecting these anchor points. For more information about mappings, details on valid data types, and how to convert data types, see [Defining the mappings](#).

The following table shows the specific guidelines for implicit casting between data types. The Source column specifies the source data used in the mapping conversion. The Target column shows the derived target. The Comment column provides any necessary additional information about the selected operation.

Table 1. Cast Iron Express® guidelines for casting between data types.

S o u r c e	T ar g et	Comment
A n y	St ri n g	All data types are converted to string.
A n y	B o ol e a n	â€œT," â€œt,â€ â€œtrue,â€ â€œTRUE,â€, â€œtRuE,â€ â€œ1â€ and similar are cast to â€œTRUE.â€ Anything else is cast as â€œFALSE.â€

S o u r c e	T ar g et	Comment
Strin g	Nu m b er	Converts a string that contains a numeric representation such as "10" or "3.14" into a decimal number type.  Note: Strings which do not contain numbers result in a failure when the source data is processed.
Strin g	In te g er	Converts a string that contains an integer numeric representation such as "10" into an integer number type. Strings which do not contain integer numbers result in a failure when the source data is processed. Users can avoid this situation by using Round, Ceiling, or Floor functions to convert from decimal number strings to integer types.
Nu m b er	In te g er	Converts a decimal number such as 10 or 3.14 into an integer. For non-integer numbers the value is automatically converted in the same way as if the user applied the Round function. Users can enforce more specific control of the conversion by using a Round, Ceiling, or Floor function.

**Parent topic:** [Using the Integration editor](#)

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## Defining the mappings

When both the Source and the Target are configured, you are presented with a list of source fields on the left, a list of target fields on the right, and two columns of anchors. You define mappings by connecting these anchor points.

Each field has an anchor point displayed immediately next to it: 

You use anchor points to map source fields to target fields by drawing a wire to connect them.

Mappings are displayed in one of three colors:

Green

Indicates that the source and target data types match and that the mapping is valid.



Amber

Indicates that there is a mismatch in data type, but it is possible to automatically convert from one data type to the other. For example, a numeric data type can be automatically converted to a string. In this situation, a warning icon  is displayed in the Result column on the right. Click this icon to see detailed information about the warning.



Red

Indicates that the source field cannot be mapped to the target field because of data type incompatibility. You cannot save any integrations with red mappings. In this situation, an error icon  is displayed in the Result column on the right. Click this icon to see detailed information about the error.



## Procedure

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To draw a wire, either click the chosen source anchor followed by the intended target anchor or drag the source anchor and drop it on the target anchor.

A wire is drawn connecting the two fields. This signifies that when the integration is running and receives data from the source system, the value of the source field is copied unchanged into the target field. Cast Iron® Express® provides sample data from the Source system on the left side and uses this sample data to populate the results of the mapping in the Target Result column on the right side.

**Parent topic:** [Using the Integration editor](#)

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## Defining the functions

---

Simple mappings can copy data from a source field and place it in the target field. However, sometimes more complex transformations are required. All mappings have an add function icon which is used to define functions.

By default, when you register for a Cast Iron® Express® account, this function is disabled. To use this additional function, click Add-ons and select the *Mapping Functions* package. For more information, see [Adding function to your Express account](#).

The Add function icon  can be clicked to open a list of available functions. The functions are group in to the following categories:

- String
- Mathematical
- Boolean
- Date
- Utility

For more information about these functions, see the [Glossary](#).

## Procedure

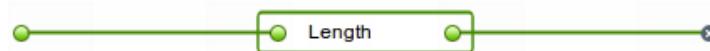
---

Click the required function. A function box is inserted into the mapping.

## Example

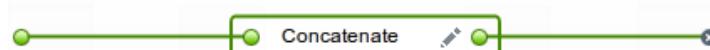
---

This example shows a simple String Length function.

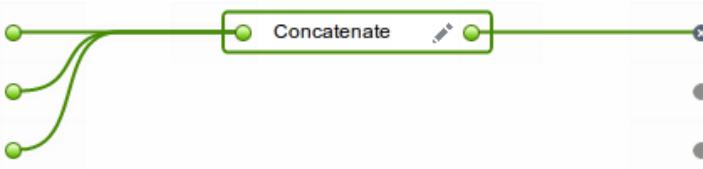


Also, the Result column on the right is updated to reflect the result of the function instead of a simple copy.

Some functions are more configurable and can accept multiple input fields. For example, the following screen capture shows a Concatenate function.



Additional source fields can be connected to the anchor point on the left side of the function, as shown in the following screen capture.



The Concatenate function also has configuration options which can be displayed by clicking the Edit icon . You can change the order of the inputs and specify configuration options for the Concatenate function such as prefix, defaultDelimiter, and postfix.

Click **Apply** to save your changes. The Target Results column on the right is updated.

**Restriction:** If the result is too long to display on the screen, it is truncated. Click the truncated result to see the full result in a tooltip.

**Parent topic:** [Using the Integration editor](#)

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## Configuring functions

You can configure functions to meet your specific requirements. To do this, you edit source fields and parameters to add or remove sources or change the order in which they appear.

By default, when you register for a Cast Iron® Express® account, this function is disabled. To use this additional function, click **Add-ons** and select the *Mapping Functions* package. For more information, see [Adding function to your Express account](#).

Complete the following steps to specify configuration options for concatenate and other functions.

### Procedure

1. On the Integrations page, click the integration that you want to edit. The integration is displayed in the integration editor with the fields that you previously selected shown in the Transformation view.
2. In the Transformation view, map a field by clicking the anchor point on a source object field and then clicking a field on the target object. The Add function icon is displayed.
3. Click the Add function icon to view a list of available functions. The Configure Function pop-up window is displayed showing a list of available functions.
4. In the Configure Function window, click the function that you want to apply to the mapping. If the function permits or requires additional information to be configured, the Edit icon is displayed.
5. Click on the Edit icon. The Edit Source Fields window is displayed showing the source fields and parameters.
6. To edit a source field, click on a row in the Edit Source Fields window that contains the source field you want to edit. The field is highlighted.
  - a. To delete a source field, click the Delete icon .
  - b. To move a source field up or down, click the appropriate Up or Down arrow.
7. When you are finished, click **Apply**.
8. On the Integrations page, click **Save** to save the changes to the integration.

Your edits are saved.

If you are using function composites, see [Composite functions](#).

**Parent topic:** [Using the Integration editor](#)

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## Composite functions

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A composite function is a combination of two separate functions, where the output of one function is chained as input to a subsequent function. The following topics provide information on creating, editing, or deleting composite functions.

By default, when you register for a Cast Iron® Express® account, this function is disabled. To use this additional function, click Add-ons and select the *Mapping Functions* package. For more information, see [Adding function to your Express account](#).

- [Working with composite functions](#)

You can add a function to an existing composite, change the order of a composite, and delete a function.

**Parent topic:** [Integrating with Cast Iron Express](#)

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## Working with composite functions

---

You can add a function to an existing composite, change the order of a composite, and delete a function.

By default, when you register for a Cast Iron® Express® account, this function is disabled. To use this additional function, click Add-ons and select the *Mapping Functions* package. For more information, see [Adding function to your Express account](#).

Complete the following steps to add a function to an existing composite function.

### Procedure

---

1. On the **Integrations** page, click the integration that you want to edit. The integration is displayed in the Integration editor with the fields that you previously selected shown in the Transformations view.
2. In the Transformations view, click the anchor point of a field from the source object and then click the anchor point of a field on the target object. The Add Function  icon is displayed.
3. Click the Add Function icon to view a list of available functions. The Configure Function pop-up window is displayed showing a list of available functions.
4. In the Configure Function window, click the function that you want to apply to the mapping. If the function permits editing or requires additional information to be configured, the Edit icon  is displayed adjacent to it.
5. Click the Edit icon. A pop-up window is displayed containing Edit Composites, Edit Source Fields and Edit Parameters window sections.  
Note:
  - The Edit Composites window section displays the available composite functions.
  - The Edit Source Fields window section defines the source (input) to the first composite function.
  - The Edit Parameters window section displays the configured parameters for the composite that you selected in the Edit Composites section.
6. In the Edit Composites window section click **Concatenate**. A drop-down menu is displayed showing a list of available concatenate function parameters.
7. Select a parameter from the drop-down menu. The window is updated with your selection.
8. Click **Apply**. The composite function is updated.
9. On the Integrations page, click **Save** to save the integration.

The composite function is updated with the new function.

Note: Because a **subsequent** function receives a single input, functions that require two or more inputs cannot be chosen as a **subsequent** composite function. Additionally, attempting to create a composite function within a composite is not allowed and is not displayed as an option.

**Parent topic:** Composite functions

## Editing composite functions

---

You can also edit composites to move, delete, or change the order of functions.

Complete the following steps to delete or move a composite function.

### Procedure

1. On the **Integrations** page, click the integration that you want to edit. The integration is displayed in the Integration editor with the fields that you previously selected shown in the Transformations view.
2. In the Transformations view, click the anchor point of a field from the source object and then click the anchor point of a field on the target object. The Add Function  icon is displayed.
3. Click the Add Function icon. The Configure Function window is displayed showing a list of available functions.
4. In the Configure Function window, click the function that you want to apply to the mapping. If the function permits editing or requires additional information to be configured, the Edit icon  is displayed adjacent to it.
5. Click the Edit icon. A pop-up window is displayed containing Edit Composites, Edit Source Fields and Edit Parameters window sections.
6. In the Edit Source Fields, select the function you want to delete or move. Use the  icon or the Up and Down arrows, to delete the function or move it up and down. The source (input) to the function is modified or moved to its new position.
7. When you are finished, click **Apply**.
8. On the Integrations page, click **Save** to save the integration.

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## List of functions

---

Cast Iron® Express® offers a selection of functions for use within mappings. These functions can be used to manipulate the field values being mapped, such as altering the content of strings, performing numeric operations on numbers, and manipulating date and time values.

By default, when you register for a Cast Iron Express account, this function is disabled. To use this additional function, click Add-ons and select the *Mapping Functions* package. For more information, see [Adding function to your Express account](#).

Table 1. String functions. This table lists and describes string functions

Mapping function	Description
Concatenate	Accepts two or more arguments and casts them to string. Returns the string that is the concatenation of the values of its arguments after conversion. The user can also configure prefix and/or postfix strings, plus a delimiter that is inserted between each of the arguments.
Length	Returns an integer equal to the length in characters of the value of the argument. If the value of the argument is the empty sequence, the integer 0 is returned.

Mapping function	Description
Lowercase	Returns the value of the argument after translating every character to its lowercase correspondent as defined in the appropriate case mappings section in the Unicode standard.
Uppercase	Returns the value of the argument after translating every character to its uppercase correspondent as defined in the appropriate case mappings section in the Unicode standard.
Replace	Returns the string that is obtained by replacing each non-overlapping substring of the input that matches the supplied pattern with an occurrence of the replacement string.
Starts with	Returns a boolean result indicating whether the value of the first argument starts with the value of the second argument.
String	Returns the value of the argument represented as a string. This value can be used to cast numeric data types into strings to prevent mappings from displaying a warning.
Substring	Returns the portion of the value of the first argument beginning at the position indicated by the value of the second argument and continuing for the number of characters indicated by the value of the third argument. For substring, there is only one field as "input" to the function. However, for the function, the start index and length values are configured in the function dialog window. In the existing text (and all other descriptions) <i>argument</i> is used in both cases.
Trim	Returns the value of the argument with white space normalized by stripping leading and trailing white space and replacing sequences of one or more than one white space character with a single space.

Table 2. Mathematical functions. This table lists and describes mathematical functions

Mapping function	Description
Absolute value	Returns the numeric value (or modulus) of a number without regard to its sign.
Mean	Returns the average of the values in the input sequence, that is, the sum of the values divided by the number of values.
Ceiling	Returns the smallest integer not less than X.
Divide	Returns a result value when the first argument is divided by the second.
Floor	Returns the largest integer not greater than X.

Mapping function	Description
Format	<p>The format-number function converts its first argument to a string by using the format pattern string specified by the second argument and the decimal-format named by the third argument, or the default decimal-format, if there is no third argument.</p> <p>The formatting options for the second parameter are as follows:</p> <ul style="list-style-type: none"> <li>• 0 - Digit</li> <li>• # - Digit (zero shows as absent)</li> <li>• . - The position of the decimal point. For example: ###.##</li> <li>• , - The group separator for thousands. For example: ###,###.##</li> <li>• % - Displays the number as a percentage. For example: ##%</li> <li>• ; - Pattern separator. The first pattern is used for positive numbers and the second for negative numbers</li> </ul> <p>The decimal format of the third parameter assists with localization of the number, and the following options can be used:</p> <ul style="list-style-type: none"> <li>• 0 - Digit</li> <li>• # - Digit (zero shows as absent)</li> <li>• . - Decimal separator or monetary decimal separator</li> <li>• - - Minus sign</li> <li>• , - Grouping separator</li> <li>• E - Separates mantissa and exponent in scientific notation. Need not be quoted in prefix or suffix</li> <li>• ; - Separates positive and negative subpatterns</li> <li>• % - Multiply by 100 and show as percentage</li> <li>• \u2030 - Multiply by 1000 and show as per mille value</li> <li>• Â¤ (\u00A4) - Currency sign, replaced by currency symbol. If doubled, replaced by international currency symbol. If present in a pattern, the monetary decimal separator is used instead of the decimal separator</li> <li>• ' - Used to quote special characters in a prefix or suffix. For example, '# #' formats 123 to #123. To create a single quote itself, use two in a row: # o' 'clock</li> </ul>
Maximum	Returns the largest value of the nodes passed as the argument.
Minimum	Returns the smallest value of the nodes passed as the argument.
Modulo	Returns the modulus, or remainder value after the first argument is divided by the second.
Multiply	Returns the value of all arguments multiplied together.
Number	Converts the argument to a decimal.
Round	Returns the number with no fractional part that is closest to the argument. If there are two such numbers, then the one that is closest to positive infinity is returned.
Subtract	Returns a value whereby the second argument is subtracted from the first
Sum	Returns a value obtained by adding the values in the argument.

Table 3. Boolean functions. This table lists and describes boolean functions

Mapping function	Description
Boolean	Computes the effective boolean value of the argument.
Not	Returns true if the effective boolean value is false, and false if the effective boolean value is true.

Table 4. Date functions. This table lists and describes date functions

Mapping function	Description
Date Time (Date)	The first argument must be in date format, the second argument is a time format. The result is a DateTime format that has both the date, and time, from the arguments

Mapping function	Description
Date to String (Date)	<p>The second argument is a string that shows how to format the date/time. The following key characters are replaced by parts of the date/time:</p> <ul style="list-style-type: none"> <li>• <b>yy</b> - Last two digits of year. For example, 86 from 1986</li> <li>• <b>MM</b> - Two-digit month</li> <li>• <b>dd</b> - Two-digit date</li> <li>• <b>HH</b> - Two-digit hour</li> <li>• <b>mm</b> - Two-digit minutes</li> <li>• <b>ss</b> - Two-digit seconds</li> </ul> <p>For example, if the Format Date String function was called with the following input parameters:</p> <p>dateTime: 2012-02-22T16:18:00.852-08:00  format string: MM/dd/yyyy  locale string: en_US</p> <p>The following string would be returned: 02/22/2012.</p> <p>For more information about the Date to String function, see the Format Date String topic in the Studio help section.</p>
Adjust to Timezone (Date)	<p>Converts the TimeDate to hold a particular time zone, or to none. Time zone applied is the second argument, for example:</p> <ul style="list-style-type: none"> <li>• <b>-10H</b> - A timezone of minus ten hours</li> <li>• <b>+5H30M</b> - A timezone of plus 5 hours and 30 minutes</li> <li>• <b>0H</b> - A timezone at 0 hours</li> </ul>

Table 5. Utility functions. This table lists and describes utility functions

Mapping function	Description
Composite	Chains together a series of functions.

**Parent topic:** [Integrating with Cast Iron Express](#)

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## Managing integrations

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Cast Iron® Express® displays a list of all of the integrations defined in an account on the Integrations page.

The list contains the name of each integration, the date and time that the integration was last updated, and the sign-in name that made the last change.

The current status of the integration is also displayed:

- Running. The integration runs continuously until stopped.
- Stopped. By default, when an integration is defined the status is stopped. You must click Stopped to run the integration. When the integration status shows as stopped, no updates are made to the target system.

You can remove an integration by clicking the delete icon. You must confirm the deletion before any action is taken.

- **Modifying integrations**

You can modify an integration at any time by clicking its name in the list on the Integrations page.

- **Deleting integrations**

You can delete an integration at any time from the Integrations page.

**Parent topic:** [Integrating with Cast Iron Express](#)

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## Modifying integrations

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You can modify an integration at any time by clicking its name in the list on the Integrations page.

The Integration Editor displays the integration as it was last saved. You can change the configuration for the integration, except the Source and Target system types.

Users can change

- The name of the integration Connection details for the Source or Target system.
- The operations used in connecting with the Source and Target systems.
- The object with which the integration interacts.
- The list of fields the integration uses.
- The transformation between the Source and Target systems.

When you are finished, click Save. If the integration is in Running state, it is stopped first, then updated, and started again

**Parent topic:** [Managing integrations](#)

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## Deleting integrations

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You can delete an integration at any time from the Integrations page.

### Procedure

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1. Click the delete icon 

2. Click OK. If the integration was in Running state, it is stopped first and then deleted.

**Parent topic:** [Managing integrations](#)

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## Monitoring integration activity

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You can use the Cast Iron® Express® Activities page to see details of all of the activity within your account.

The Activities page shows a number of different types of events:

- Integration creation, modification, and deletion.
- The jobs that were run by the integration. A job is a single instance of data that arrives from the Source system that is transformed and then pushed to the Target system.
- Alerts detailing potential problems with the account. For example, if a secure connector is not available for a running integration, an alert is displayed indicating it must be started before any jobs can run.

The Activity feed can be filtered by clicking the three buttons at the top of the page. The options are:

- All Activity, which shows all the different types of activity message in one list.
- Integration Activity, which shows only activity messages that relate to jobs that are running in the system.
- Alerts, which shows only warnings and errors that might require user intervention.

The Activities page displays the most recent messages first.

This list is automatically updated every time the Activities page is opened and automatically, in the background every 60 seconds, to ensure that the latest information is available.

**Parent topic:** [Integrating with Cast Iron Express](#)

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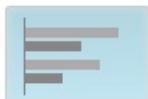
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.omniapps.doc/integrations\\_MonitoringIntegrationActivity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.omniapps.doc/integrations_MonitoringIntegrationActivity.html)

## Utilization Charts

---

Utilization charts allow you to quickly identify the most active integrations and endpoints for a specific tenant. A summary of job successes and failures and a breakdown of integration activity is presented in a monthly and yearly chart.

From the Integrations page, open the charts display by clicking the charts icon:



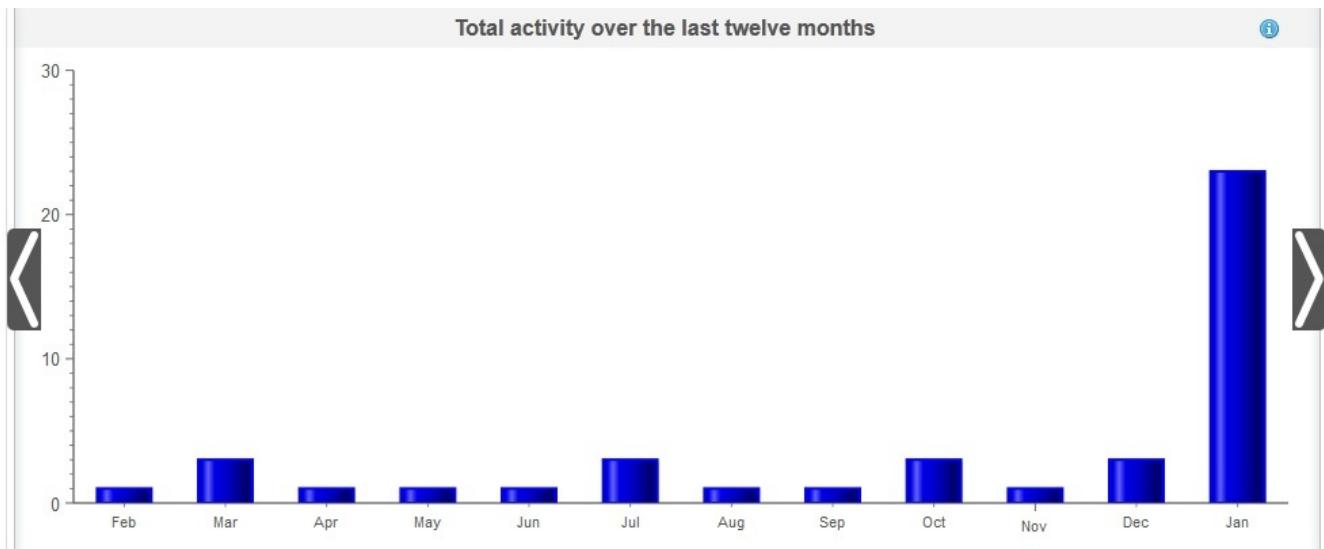
To close the utilization charts display, click the charts icon again.

You can use the left and right arrows to scroll through various utilization charts:

- Top most active integrations over the last thirty days
- Top most active endpoints over the last thirty days
- Total activity over the last twelve months

Information displayed in the utilization charts is refreshed every 60 seconds.

An example of a *Total activity over the last twelve months* chart is shown in the following screen capture:



## Top most active integrations over the last thirty days

This chart provides data on the integrations that processed the most jobs during the last 30 days. The top ten integrations display in the chart in order of activity: the most active integration is at the top of the chart descending the least active integration at the bottom of the chart. For each of the top ten integrations, the chart further breaks down the total number of successful jobs (represented by a green bar) and failed jobs (represented by a red bar). Click the green or red bar to see more detailed job information.

## Top most active endpoints over the last thirty days

This chart provides data on the endpoints that processed the most jobs during the last 30 days. The chart displays the most active endpoint at the top. For each endpoint, the chart further breaks down the total number of successful jobs (represented by a green bar) and failed jobs (represented by a red bar). Click the green or red bar to see more detailed job information.

## Total activity over the last twelve months

This chart provides a view of all integration activity that occurred during the last 12 months for a specific tenant. All integration activity that occurred over the last 12 months is displayed in monthly intervals. Click a specific bar to obtain more details about the breakdown of successful and failed invocations for that month.

**Parent topic:** [Integrating with Cast Iron Express](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.omniapps.doc/integrations\\_utilizationcharts.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.omniapps.doc/integrations_utilizationcharts.html)

## Tutorial

---

The following tutorial provides an example of how to create an integration. You can use the information to quickly create an integration within your Cast Iron® Express® account.

- [Tutorial: Creating a local file to salesforce.com integration](#)

You can create and run integrations with IBM® Cast Iron Express. This tutorial describes how to create an integration from a local file to salesforce.com. You can quickly define the integration and upload your data in a one-off operation.

Last updated: Thursday, 2 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.omniapps.doc/tutorials.html>

## Tutorial: Creating a local file to salesforce.com integration

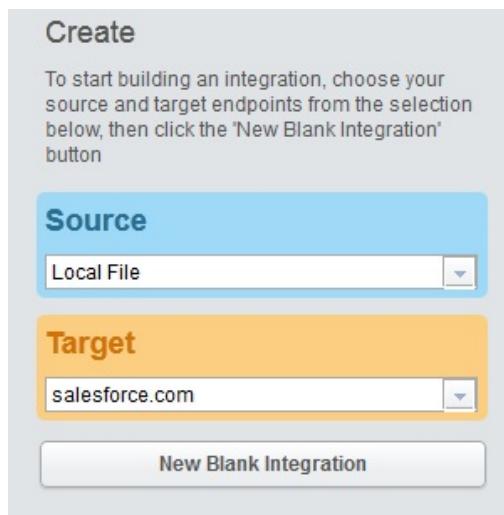
You can create and run integrations with IBM® Cast Iron® Express®. This tutorial describes how to create an integration from a local file to salesforce.com. You can quickly define the integration and upload your data in a one-off operation.

### Step 1: Create the Integration

After signing in to Cast Iron Express, click Integrations. With the Integrations view open, create an integration by selecting your source and target endpoints.

Tip: You might want to click Save at regular intervals when creating and defining an integration. Your work is not lost if you then experience web browser problems or you are signed out of Cast Iron Express because of inactivity.

For this tutorial, select Local File as the Source and salesforce.com as the Target.



Click New Blank Integration, which is displayed under the Target selection.

An outline integration is displayed in which the Source, Transformation, and Target, must be defined. The numerals indicate the integration definition sequence:

1. Define the source endpoint
2. Define the target endpoint
3. Define the transformation by mapping the data path from the source endpoint to the target endpoint

The screenshot shows the integration configuration interface with three tabs: 'Source' (selected), 'Transformation', and 'Target'.  
**Step 1: Define the Source:** Describes the process of defining the source endpoint.  
**Step 3: Map the Data:** Describes the process of mapping data between source and target.  
**Step 2: Define the Target:** Describes the process of defining the target endpoint.

### Step 2: Configure the endpoints

In the Source header, click Edit.

The source endpoint configuration view opens.

Click Select File and choose the local file that you want to upload the data from. The file must be a delimited file.

For this tutorial, we are using a file named *accounts.csv*.

The file contains some account information and includes a field called "id" that uniquely identifies each of the account records in the file. The contents of the *accounts.csv* file used is included here:

```
id,name,streetAddress,city,postcode,phoneNumber  
0,AcmeCo,10 Downing Street,London,SW1A 2AA,02012345678  
1,MyOtherCompany,221b Baker Street,London,SW2B 3FG,020654321
```

1 Source

**Step 1: Upload File**

Select a file from your local File System below. Your file will then be uploaded to our servers, and you will be able to begin selecting what fields to use.

*accounts.csv*      [Change](#)

[Load Fields >](#)

If you want to select a different file, click Change.

Click Load Fields and verify the details that are automatically generated about your selected file. For example, the delimiter character used in the file.

For this tutorial, the *accounts.csv* file uses a comma as the delimiter character. Also, the remaining fields can be left with their default values.

Local File to salesforce.com Save

1 Source Done

**Step 1: Upload File**

Select a file from your local File System below. Your file will then be uploaded to our servers, and you will be able to begin selecting what fields to use.

*accounts.csv*      [Change](#)

[Load Fields >](#)

**Available Fields**

Separator character *	<input checked="" type="checkbox"/> Comma (,)	<input checked="" type="checkbox"/> File has header row
Quote character	<input checked="" type="checkbox"/> Single quote ('')	Number of footer rows
		<input type="text" value="0"/>

[Continue](#)

Click Continue to display all of the available fields within the selected file.

**1 Source**

**Step 1: Upload File**

Select a file from your local File System below. Your file will then be uploaded to our servers, and you will be able to begin selecting what fields to use.

accounts.csv [Change](#)

[Load Fields >](#)

**Available Fields** [Select All](#) [Clear All](#)

Separator character *	<input checked="" type="text"/> Comma (,)	<input checked="" type="checkbox"/> File has header row
Quote character	<input checked="" type="text"/> Single quote ('')	<input type="text"/> Number of footer rows
		<input type="text"/> 0

[Continue](#)

Field	Type	Sample Data
... ▾ Record	...	...
<input checked="" type="checkbox"/> id	string	0
<input checked="" type="checkbox"/> name	string	AcmeCo
<input checked="" type="checkbox"/> streetAddress	string	10 Downing Street
<input checked="" type="checkbox"/> city	string	London
<input checked="" type="checkbox"/> postcode	string	SW1A 2AA
<input checked="" type="checkbox"/> phoneNumber	string	02012345678

Select the fields that you want to upload the data from. By default, all of the fields are selected.

For this tutorial, we are using all of the selected fields.

When you are finished, click Done.

The source endpoint is defined for this integration.

You return to the integration overview and the selected Source fields are displayed.

Local File to salesforce.com [Save](#) [Close](#)

Source		Transformation		Target
Field	Type	Sample		
File		...		
Record		...		
id	xy	0	→↑	
name	xy	AcmeCo	→↑	
streetAddress	xy	10	→↑	
city	xy	London	→↑	
postcode	xy	SW1A 2AA	→↑	
phoneNumber	xy	0201234	→↑	

**Step 3: Map the Data**

The middle panel is used to map the data between the source and target that you've selected. Come back to this step once you have filled in the Source and Target to complete your integration.

**Step 2: Define the Target**

Click on the title bar or the number to expand the target definition pane, fill in the details for the connection you want to use, and select to object and fields that you would like to integrate.

You can now define the target endpoint.

In the Target header, click Edit. Enter the credentials required to sign in to salesforce.com.

These credentials are validated, and if correct, you are signed in to the salesforce.com account. The available business objects that you can use in your integration are listed.

For this tutorial, from the list of objects, select Account. The description of the Account object is presented in the Available Fields section which shows all fields in the Account object.

Note: You can select the fields that you are interested in and want to load with the data from your local file. You do not have to integrate the whole object, only the fields that are required for your integration definition.

Use the Operations option to specify the context of the data operation that you want for your integration.

For this tutorial, select Update objects as the operation. When the integration is running, it automatically updates the selected Accounts fields in salesforce.com.

Select the required Account fields as shown in the following screen capture:

The screenshot shows the 'Target' configuration screen. On the left, 'Connection information' is filled with details for 'salesforce.com'. In the center, the 'Operations' dropdown is set to 'Update objects'. On the right, the 'Available Objects' list shows 'Account' selected. The 'Available Fields' table lists various account fields, with several checked: Id\*, Name, Type, ParentId, BillingStreet, BillingCity, BillingState, BillingPostalCode, BillingCountry, ShippingStreet, ShippingCity, ShippingState, ShippingPostalCode, ShippingCountry, and Phone. A 'Select All' and 'Clear All' button is at the top of the table.

Field	Type
Id*	tns:ID
IsDeleted	xsd:boolean
MasterRecordId	SalesForce.com
Name	xsd:string
Type	xsd:string
ParentId	SalesForce.com
BillingStreet	xsd:string
BillingCity	xsd:string
BillingState	xsd:string
BillingPostalCode	xsd:string
BillingCountry	xsd:string
ShippingStreet	xsd:string
ShippingCity	xsd:string
ShippingState	xsd:string
ShippingPostalCode	xsd:string
ShippingCountry	xsd:string
Phone	xsd:string

When complete, click Done.

The target endpoint is defined for this integration.

You return to the integration overview. The integration is updated with the Target selected fields in salesforce.com.

The screenshot shows the integration overview. It includes three main sections: 'Source' (Local File to salesforce.com), 'Transformation' (with a step icon), and 'Target' (salesforce.com). The 'Source' section lists file and record fields with their types and samples. The 'Target' section maps these to specific account fields in salesforce.com, including Id\*, Name, BillingStreet, BillingCity, BillingState, BillingPostalCode, BillingCountry, ShippingStreet, ShippingCity, ShippingState, ShippingPostalCode, ShippingCountry, and Phone. Buttons for 'Save' and 'Close' are at the top right.

Field	Type	Result
Id*	xy	[•]
Name	xy	[•]
BillingStreet	xy	[•]
BillingCity	xy	[•]
BillingPostalCode	xy	[•]
Phone	xy	[•]

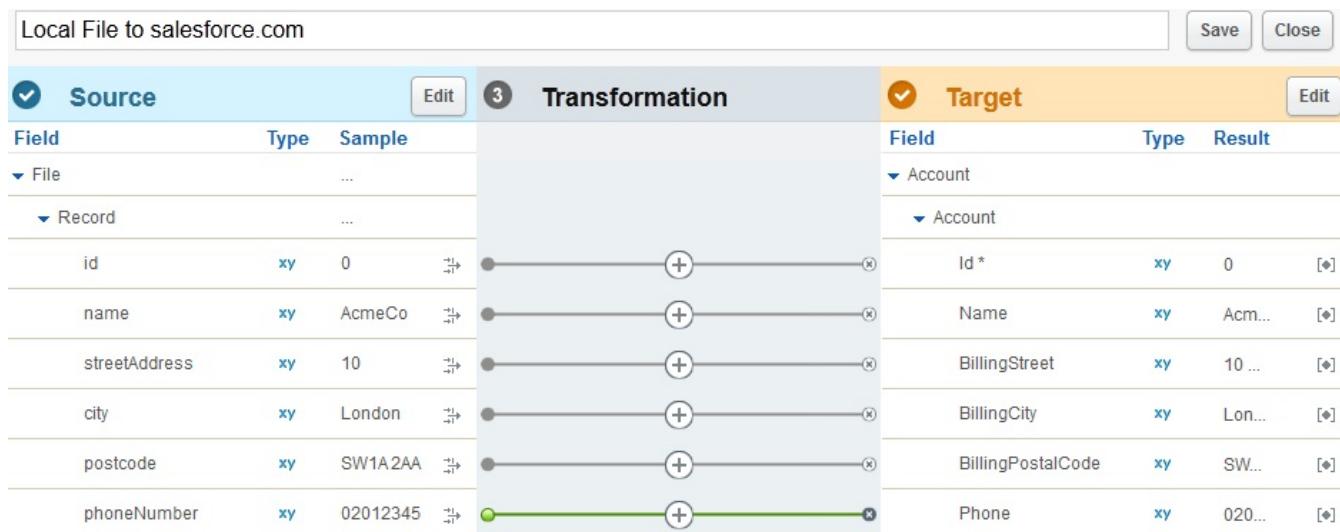
In the integration overview, you can now see both the source and the target fields that are ready to be mapped.

## Step 3: Define the transformation

To complete the integration you must map the fields from the source to the target.

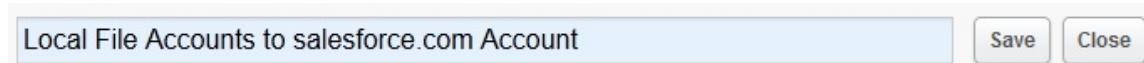
Connect the source and target fields as required. For each source field, click the anchor point and then click the corresponding target field anchor point.

In this tutorial, you map the data from the source fields to the target fields as shown in the following screen capture. You are not required to define functions on the data.



Defining functions and more complex transforms is covered in the tutorial on transformations.

Enter a name that is meaningful and representative of the integration. For example, Local File Accounts to salesforce.com Account.



Local File Accounts to salesforce.com Account

Save Close

Save the completed integration by clicking Save. Then, click Close to return to the Integrations view.

The Integrations view lists all of the defined integrations and their current state.

## Integrations

Name	Updated	Status	Actions
Local File Accounts to salesforce.com Account	Sep 11, 2012 12:41:37 PM by admin@CompanyName	Stopped	Run Delete accounts.csv Change

## Step 4: Run the integration

Now that integration is defined, you must run the integration to copy the data from the source endpoint to the target endpoint.

Click Run, displayed to the right of the integration that you created.

The integration runs and the data is uploaded from your defined source local file to the defined target salesforce.com object in a one-off operation.

The integration status changes to running:

## Integrations

Name	Updated	Status	Actions
Local File Accounts to salesforce.com Account	Sep 11, 2012 12:41:37 PM by admin@CompanyName	Running...	<a href="#">Run</a> <a href="#">Delete</a> <a href="#">accounts.csv</a> <a href="#">Change</a>

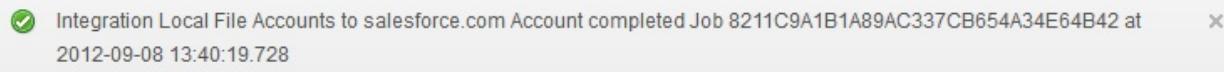
You can click Activities > Integration Activity to view the recent Cast Iron Express integration activities. The activities are displayed with the most recent at the top of the list.

For this tutorial, the following screen capture shows the completed integration details.

The screenshot shows a summary of integration activities. It includes three buttons: 'All Activity' (12), 'Integration Activity' (4, highlighted in blue), and 'Alerts' (0). Below this, a message indicates a successful job completion: 'Integration Local File Accounts to salesforce.com Account completed Job 8211C9A1B1A89AC337CB654A34E64B42 at 2012-09-08 13:40:19.728' on '08 September 2012 14:40:21'.

To verify the successful integration, go to the target system and check that the data arrived.

When the integration completes, a successful integration acknowledgment message is also displayed momentarily in the lower part of the view.



**Parent topic:** [Tutorial](#)

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## Glossary

---

This glossary includes terms and definitions for Cast Iron® Express®.

- [Bundles](#)  
Bundles are a collection of endpoints.
- [Connection](#)  
A set of properties that together can be used to establish a connection to a source or target (db user name, password, server, port etc).
- [Endpoint](#)  
Represents the properties of an external system, such as a database server, FTP server, email system, or enterprise application. This can be either the source of data to the Integration Appliance, or the target of processing by the Integration Appliance.
- [Fields](#)  
Properties of the object / table / file (depending on the context).
- [Functions](#)  
Simple XSLT-style functions for manipulating data. For example, move, concat, not, or max.
- [Integration](#)  
The specific sequence of processing activities (such as data mapping, transformation, and control logic activities), endpoints, and data types, defined and configured using Cast Iron Express.
- [Operations](#)  
Actions that have been used during transformation. On the source side, these are in the past tense, for example created,

updated, deleted, or upserted. On the target side, these are in the active voice, for example create, update, delete, or upsert.

- **Source**  
The originating endpoint, located on the left side of an integration.
  - **Target**  
The target endpoint, located on the right side of an integration.
  - **Transformation**  
The definition of the process for transforming the in-flight data, from the source format, to the target format. This may or may not include lookups, filtering, and functions.
- 

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## Bundles

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Bundles are a collection of endpoints.

**Parent topic:** [Glossary](#)

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## Connection

---

A set of properties that together can be used to establish a connection to a source or target (db user name, password, server, port etc).

**Parent topic:** [Glossary](#)

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## Endpoint

---

Represents the properties of an external system, such as a database server, FTP server, email system, or enterprise application. This can be either the source of data to the Integration Appliance, or the target of processing by the Integration Appliance.

**Parent topic:** [Glossary](#)

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## Fields

---

Properties of the object / table / file (depending on the context).

- A table's fields are the column names
- An object's fields are it's property names

**Parent topic:** [Glossary](#)

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## Functions

---

Simple XSLT-style functions for manipulating data. For example, move, concat, not, or max.

**Parent topic:** [Glossary](#)

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## Integration

---

The specific sequence of processing activities (such as data mapping, transformation, and control logic activities), endpoints, and data types, defined and configured using Cast Iron® Express®.

**Parent topic:** [Glossary](#)

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## Operations

---

Actions that have been used during transformation. On the source side, these are in the past tense, for example created, updated, deleted, or upserted. On the target side, these are in the active voice, for example create, update, delete, or upsert.

**Parent topic:** [Glossary](#)

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## Source

---

The originating endpoint, located on the left side of an integration.

**Parent topic:** [Glossary](#)

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## Target

---

The target endpoint, located on the right side of an integration.

**Parent topic:** [Glossary](#)

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## Transformation

---

The definition of the process for transforming the in-flight data, from the source format, to the target format. This may or may not include lookups, filtering, and functions.

**Parent topic:** [Glossary](#)

---

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## About the Cloud

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About the Cloud topics provide general information about the IBM® WebSphere® Cast Iron® Cloud.

- [About Environment Dashboards](#)
- [About the Cloud](#)
- [Contacting Technical Support](#)
- [Navigating the Management Console](#)

The Management Console is a web-based tool that allows you to manage and monitor the various systems and resources of your integration environment. This environment can be a physical Integration Appliance or an environment in the WebSphere Cast Iron Cloud.

- [Support Information](#)

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## About Environment Dashboards

---

An environment dashboard provides multiple snapshot views of project configurations and jobs, a list of unresolved critical system errors, and an overall project configurations summary, and status of Secure Connectors. The Dashboard also allows you to search for orchestration jobs by job key. The Search box is located in the Results section of the dashboard.

To expand the views of the Critical Alerts and Secure Connector Summary, click the icon in the upper right corner. An expanded view of Project Configuration is available by selecting Repository > Configurations from the navigation pane. An expanded view of Results is available by selecting Repository > Job Log from the navigation pane.

A dashboard is available for each environment in a multi-environment cloud. The information the dashboard displays is specific to its environment.

**Parent topic:** [About the Cloud](#)

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[Feedback](#) | [Notices](#)

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## About the Cloud

---

The IBM® WebSphere® Cast Iron® Cloud (Cloud) administrator provisions a tenant for your organization and can create multiple environments for you to deploy your projects in. The Cloud administrator also provides a username and password for the tenant administrator.

After the tenant, and any environments are created, it is the tenant administrator that creates users and groups, and manages environments in the tenant.

## Cloud Tenants

---

The IBM WebSphere Cast Iron Cloud (Cloud) supports multiple organizations (tenants). Each cloud tenant is managed by a tenant administrator. The tenant administrator creates and manages users and groups, for a specific cloud tenant.

You can get a trial version or buy Cast Iron Live licenses using the IBM Marketplace: <https://www.ibm.com/marketplace/cloud/cloud-integration/us/en-us>.

## Cloud Environments

---

The Cloud supports multiple environments for each tenant. The environments allow you to stage project development or isolate project development.

For example, you can have a Development, Staging, and Production environment. These environments display as tabs in the Cloud Web Application. While the Cloud administrator, not the tenant administrator, creates these environments for each tenant, it is the tenant administrator that grants permissions to individual users/groups for each environment.

Note: Some connectors require you to install 3rd party libraries before you can deploy a project to an environment. In a multi-environment tenant, verify that the environment to which you deploy a project has all required libraries installed.

Note: To use Studio Verify in a multi-environment tenant, you must specify the environment from which Studio will retrieve connector libraries.

For example, SAP libraries are installed in the Development environment and Production environment. You specify the Development environment in your user profile. When you execute Studio Verify for your SAP project, Studio uses the libraries in the Development environment. You can then chose to deploy your project to the Development environment or Production environment.

To specify the environment from which Studio Verify retrieves connector libraries:

1. Click your username, located in the upper right corner of the console. The User Profile dialog is displayed.
2. Click Change Libraries Environment.
3. Select a libraries environment from the list.
4. Click Save.

## Studio Cloud

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In addition to the desktop version of Studio, you can launch and work with the Studio directly in the Cloud. This cloud version of Studio (Studio Cloud) allows you to create and deploy projects from the cloud.

Functionally, Studio Cloud is similar to Studio Desktop with a few differences listed here:

- The Recently Opened Project option is not available in Studio Cloud.
- The Save Remotely toolbar is not available in Studio Cloud, but is available in Studio Desktop when you are logged in to the Cloud.
- For Studio Cloud, when you select Save As Project [Cloud] or Rename Project [Cloud], the wizard does not display the location on the local file system where the wizard saves a project.
- Instead of a New Project option, Studio Cloud has a New Project Local option. The new option creates a new project on the local file system.
- Instead of a Open Project option, Studio Cloud has an Open Project Local option. The new option opens a project from the local file system.
- Instead of the Save Project option, Studio Cloud has two new options, which depend on whether you are logged in. If you are logged in, the Save Project [Cloud] options saves projects to the cloud. If you are not logged in, Save Project [Local] saves the project locally.
- Instead of the Save As option, Studio Cloud has a Save As to Local option.
- In Studio Cloud, you can select the Save As To Cloud option, which saves a copy of a project to the cloud.
- Instead of Rename Project, Studio Cloud has two new options, which depend on whether you are logged in. If you are logged in, the Rename Project [Cloud] option renames the project locally and remotely. If you are not logged in, the Rename Project [Local] option only renames the project locally.

## Cloud TIPs Wizard

---

You can now access the TIP Wizard in the Cloud. The TIP Wizard steps you through an integration project template to help you quickly build your own integration project.

The Cloud Management Console allows you to search all the templates available in the Solutions Repository. When search results are returned, a check mark in the Certified column of the Solutions page identifies templates that Cast Iron has tested and certified. User rating information is also available in the Template Details pane. The final step in the TIP Wizard allows you to rate the template.

To launch the TIP Wizard:

1. In the cloud, select the Create tab. The Solutions page is displayed.

2. In the Search Templates by keyword(s) field, enter a keyword. For example: SAP.
3. Click Search. All templates that match the keyword display.  
Note: You can select the Advanced Search option to filter templates by first endpoint or second endpoint.
4. Click the appropriate template. The Templates Details pane is displayed.
5. Click the Create a Project Based on this Template link.

## Secure Connector

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The Secure Connector allows you to access the cloud using endpoints that sit behind your internal firewalls and transfers data using a secure protocol.

**Parent topic:** [About the Cloud](#)

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## Contacting Technical Support

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Submit technical support issues through the [IBM® Support Page](#).

**Parent topic:** [About the Cloud](#)

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## Navigating the Management Console

---

The Management Console is a web-based tool that allows you to manage and monitor the various systems and resources of your integration environment. This environment can be a physical Integration Appliance or an environment in the WebSphere® Cast Iron® Cloud.

The navigation pane on the left of the Management Console displays a menu of pages that allow you to view, configure, and take actions on various systems and resources.

The back and forward buttons on browsers do not allow you to move through the Management Console pages in the order which you opened them. Use the back and forward arrows in the top right corner of the Management Console to move through the Management Console pages in the order you opened them.

The user that is currently logged in is also displayed in the top right corner. Click the username to open the User Profile window.

**Parent topic:** [About the Cloud](#)

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## Support Information

---

The Support Information page provides information about your cloud space. Specifically, the page displays the version and ID of the cloud your tenant or tenants and environments are running on.

This page also provides the environment ID information you must specify while you are installing a Secure Connector.

**Parent topic:** [About the Cloud](#)

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## Managing Cloud Instances

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Managing Cloud Instances topics provide information about installing 3rd party libraries and scheduling downtimes.

- [Downloading and Installing SAP JAR Files and DLLs](#)
- [Installing Vendor Supplied Libraries](#)
- [Scheduling Downtime](#)

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[Feedback](#) | [Notices](#)

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## Downloading and Installing SAP JAR Files and DLLs

---

### Before you begin

You must have an SAP User ID and password to enter the SAP Support Portal to download the files.

### About this task

In order to connect to an SAP system, you must install SAP DLLs and JAR files onto your development environment.

To download and install the SAP jar files and DLLs:

1. Contact SAP Technical Support to obtain the zip files for the following SAP Components:
  - If the secure connector is running on Windows:
    - SAP 32 bit JCo version 3.0.10 or later versions - Windows
    - SAP Java IDoc Class Library 3.0.10 or later versions
  - If the secure connector is running on Linux:

- 32 bit SAP JCo 3.0.10 or later versions - Linux (for Intel compatible processors)
  - SAP Java IDoc Class Library 3.0.10 or later versions
2. Unzip the SAP JCo zip file:
    - Double-click the sapjidoc30P\_x-1000xxxx.zip file.
    - Use the decompression tool to extract the contents of the compressed file to a temporary directory. This zip file contains another zip file sapjco3-NTintel-3.0.x.zip. Extract this zip also to a temporary directory, for example, in Windows: C:\temp\sapjco3-NTintel-3.0.x. This directory contains the required libraries sapjco3.jar and sapjco3.dll. For example in Linux: /tmp/sapjco-linuxintel-3.0.x. This directory contains the required libraries sapjco3.jar and libsapjco3.so.
  3. Unzip the SAP IDoc JCo zip file:
    - Double-click the sapjidoc30P\_x-1000xxxx.zip file.
    - Use the decompression tool to extract the contents of the compressed file to a temporary directory, for example, C:\temp\sapjidoc30P\_x-1000xxxx. This directory contains the required library sapidoc3.jar.

## Procedure

---

1. Log on to the Management Console and select System > Connectors. The Connectors page is displayed.
2. Click Update Libraries. The Update Connector Libraries window is displayed.
3. Select SAP in the Connector column.
4. Click the plus (+) button and repeat the following substeps until you have imported all the jar files you just downloaded.
  - a. Locate one of the jar files you just downloaded.
  - b. Click Open to import the jar file. The file displays in the Files to Add column.
5. Click Update.

The files that display in the Files to Add column are not committed until you click Update. If you click Reset before you click Update, the Management Console does not add the files you uploaded. If the Management Console times out before you click Update and commit the added files, repeat the last two steps.

## Results

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You can now run SAP projects.

**Parent topic:** [Managing Cloud Instances](#)

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## Installing Vendor Supplied Libraries

---

### About this task

If your integration project uses a connector that requires additional libraries, you must install the additional libraries before you deploy the project configuration. Deploying the project configuration before installing the additional libraries generates runtime errors. For a complete list of connectors that require vendor supplied libraries, open the Update Connector Libraries page. See the following procedure.

If you have a multi-environment tenant, you must install the 3rd party libraries in each environment where you deploy a project configuration with a connector that requires the additional libraries.

For example, you have a tenant with three environments: Development, Staging, and Production. You publish a project configuration for an SAP endpoint in the Development and Production environments. Before you can deploy the project configuration, you must install additional SAP libraries on both the Development and Production environments.

## Procedure

---

1. Click an environment tab.
2. Select System > Connector Libraries to open the Update Connector Libraries page.
3. In the Connector column, select the connector for which you want to install additional files.

Any files that have already been installed display in the Installed Files column.
4. Click the (+) icon and select the library file or files to upload. In the cloud, .jar and .dll are valid library files types. The files you select display in the Files to Add column.
5. Click Update.

The files that display in the Files to Add column are not committed until you click Update. If you click Reset before you click Update, the Cloud Management Console does not add the files you uploaded. If the Cloud Management Console times out before you click Update and commit the added files, repeat the last two steps.

**Parent topic:** [Managing Cloud Instances](#)

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## Scheduling Downtime

---

### About this task

Scheduling downtime allows you to perform maintenance on an environment or related system. You can create downtime rules for project configurations that stop or suspend all enabled orchestration jobs in that project configuration for a specified duration of time. The project configuration does not have to be undeployed to create or edit a downtime rule. Downtime rules can occur once or repeat at specific intervals. You must have administrator or publisher permissions to create, edit, or delete a downtime rule.

By default, downtime rules are stored in GMT time zone. If an administrator modifies the system clock from GMT to another time zone, downtime rules are executed at the same absolute time. For example: You create a downtime rule to stop all orchestration between 4:00pm - 4:15pm GMT. The administrator then modifies the system clock to display PDT. Your downtime rule is modified to now stop all orchestration between 8:00am - 8:15am PDT. To execute the downtime rule at 4:00pm - 4:15pm PDT, you must edit the downtime rule. Times differences caused by daylight savings are automatically adjusted.

If the environment is offline when a downtime rule is scheduled to occur, all unexecuted rules are identified and executed in the appropriate order when the environment returns online. After all the backlogged downtime rules are executed, you regain control to modify the deployment state of a project configuration.

### Procedure

---

1. From the Navigation pane, select Repository > Configurations. The Project Configurations page is displayed.
2. Click the project configuration, which contains the downtime rule you want to work with. The Configuration Details page is displayed.
3. In the Scheduled Downtimes section, click New Rule. The New Downtime Rule dialog box is displayed.
4. Select one of the following actions from the list:
  - o **Stop (allows jobs to finish)** - At the specified time, prevents any new orchestration jobs from starting while allowing current jobs to finish processing. This action allows all jobs to end.
  - o **Stop (cancel running jobs)** - At the specified time, prevents any new orchestration jobs from starting and stops all currently running jobs. This action immediately stops all jobs.
  - o **Suspend** - At the specified time, prevents any new orchestrations from starting and pauses any jobs that are currently running. At the end of the scheduled downtime, the runtime processes the suspended job from the point it paused.
5. Specify the duration of the downtime by specifying a date and time for Start Downtime and End Downtime.
6. Optional: Select the Repeat option to create a repeat downtime rule.
  - a. Specify a repeat interval (numeric value).
  - b. Specify frequency from the list: Days, Weeks, Months, or Years.
7. Click Save.

## Results

---

The new downtime rule displays in the Scheduled Downtimes section and the Scheduled Downtime counter increases by one.

**Parent topic:** [Managing Cloud Instances](#)

## Edit Downtime Rules

---

### Procedure

---

1. From the Navigation pane, select Repository > Configurations. The Project Configurations page is displayed.
2. Click the project configuration, which contains the downtime rule you want to work with. The Configuration Details page is displayed.
3. In the Scheduled Downtime section, click the downtime rule you want to edit. The Edit Downtime Rule is displayed.
4. Select one of the following actions from the list:
  - o **Stop (allows jobs to finish)** - At the specified time, prevents any new orchestration jobs from starting while allowing current jobs to finish processing. This action allows all jobs to end.
  - o **Stop (cancel running jobs)** - At the specified time, prevents any new orchestration jobs from starting and stops all currently running jobs. This action immediately stops all jobs.
  - o **Suspend** - At the specified time, prevents any new orchestrations from starting and pauses any jobs that are currently running. At the end of the scheduled downtime, the runtime processes the suspended job from the point it paused.
5. Specify the duration of the downtime by specifying a date and time for Start Downtime and End Downtime.
6. Optional: Select the Repeat option to create a repeat downtime rule.
  - a. Specify a repeat interval (numeric value).
  - b. Specify frequency from the list: Days, Weeks, Months, or Years.
7. Click Save.

## Deleting Downtime Rules

---

### Procedure

---

1. From the Navigation pane, select Repository > Configurations. The Project Configurations page is displayed.
2. Click the project configuration, which contains the downtime rule you want to work with. The Configuration Details page is displayed.
3. In the Scheduled Downtime section, select the downtime rule you want to delete. The Delete Rules confirmation window is displayed.
4. Click Yes.

### Results

---

The downtime rule no longer displays.

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## Managing Orchestrations

---

Managing Orchestrations topics provide information about editing orchestration settings and exporting job reports.

- [About Orchestration Settings](#)  
Orchestration settings allow you to configure properties for individual orchestrations in a project configuration. For each orchestration you can specify whether the orchestration is enabled, the logging levels, logging behavior, and the maximum number of jobs that the orchestration can simultaneously run.
- [Editing Orchestration Settings](#)

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## About Orchestration Settings

---

Orchestration settings allow you to configure properties for individual orchestrations in a project configuration. For each orchestration you can specify whether the orchestration is enabled, the logging levels, logging behavior, and the maximum number of jobs that the orchestration can simultaneously run.

When a project configuration is undeployed you can edit the following orchestration settings:

Orchestration Settings	Description
Enabled	Indicates whether an orchestration is enabled and can be deployed. At least one orchestration in a project configuration must be enabled to deploy a project configuration. By default, all orchestrations in a project configuration are enabled.
Logging Level	Allows you to specify the level of orchestration details that are logged in the System Logs. <ul style="list-style-type: none"><li>• <b>None</b> - Orchestration status and activity are not logged.</li><li>• <b>Initial Values</b> - Only the initial values of orchestration variables are logged.</li><li>• <b>Initial and Error Values</b>- Both the initial values of orchestration variables and orchestration errors are logged.</li><li>• <b>Error Values</b>- Only orchestration errors are logged.</li><li>• <b>Inline</b> - Orchestration job details are logged for suborchestrations inline with the job details of the calling orchestration.</li><li>• <b>All</b>- The highest level of logging. All orchestration activity is logged.</li></ul>
Log Synchronously	Allows the runtime to synchronize the writing of orchestration events to the orchestration monitoring logs as the orchestration is running.  By default, this orchestration setting is disabled and orchestration jobs are not synchronously logged.  Note: When you enable this orchestration setting, the time it takes to process an orchestration job increases.
Max Simultaneous Job	Allows you to specify the number of orchestration jobs that can run simultaneously.

**Parent topic:** [Managing Orchestrations](#)

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## Editing Orchestration Settings

---

## Before you begin

---

To edit orchestration settings, the project configuration must be undeployed.

Tenant administrators, environment administrators (for the environment where the project is published), and publisher of a project can edit its orchestration properties.

## About this task

---

Note: If you grant project configuration permissions to a group, the users in that group will have full access to the project configuration- the user will be able to create new versions of the project configuration, as well as edit and delete the project configuration.

## Procedure

---

1. Select the environment tab, where the project configuration is published.
2. From the navigation pane, select Repository > Configurations. The Project Configuration page is displayed.
3. If the project configuration you want to edit is running, stop the project configuration by clicking the Stop icon in the Actions column. When the Stop Configuration dialog box displays, click one of the following options:
  - o **Finish Jobs** - At the specified time, prevents any new orchestration jobs from starting while allowing current jobs to finish processing. Allow the jobs to end.
  - o **Cancel Jobs** - At the specified time, prevents any new orchestration jobs from starting and stops all currently running jobs. This action immediately stops all jobs.
4. Undeploy the project Configuration, by clicking the Undeploy icon in the Action Column.
5. Click the project configuration you want to edit. The Configuration Details page displays.
6. In the Orchestration section, click Edit to edit the orchestration settings. The Edit Orchestration Settings window is displayed.
7. Click Save.
8. Deploy the project configuration to begin processing orchestration jobs.

## Results

---

The updates you made display in the Orchestration section of the Configuration Details page and the runtime processes the orchestration as specified.

**Parent topic:** [Managing Orchestrations](#)

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## Managing Projects

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Managing Projects topics provide information about creating, managing, and deploying integration projects.

- [About Naming Projects and Configurations](#)
- [About Project Configurations](#)
- [About Projects](#)
- [Cloning Project Configurations](#)
- [Copying Projects](#)
- [Creating Projects From Scratch](#)
- [Creating Projects From a Template](#)
- [Deleting Project Configurations](#)
- [Deleting Projects](#)
- [Deploying Project Configurations](#)
- [Editing Project Configuration Properties](#)
- [Editing Projects](#)

- Publishing Projects
- Push WSDL from Cast Iron Project to API Management
- Push REST API (Swagger) from Cast Iron Project to API Management
- Reviewing TIPs
- Stopping Project Configurations
- Uploading Project Configurations
- Working with Project Configurations
- Troubleshooting Projects

This topic provides potential solutions for issues you have with the projects in Cast Iron Live.

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## About Naming Projects and Configurations

---

Project and project configuration names cannot be longer than 42 characters. When you create a project or project configurations avoid using the following list of reserved characters.

Reserved Characters	Description
&	ampersand
{ } [ ] < >	any brackets
*	asterisk
\	backslash
' ^ '	caret
:	colon
\$	dollar sign
/	forward slash
#	number sign
( )	parenthesis
	pipe
.	period
?	question mark
;	semicolon
	space
~	tilde

**Parent topic:** [Managing Projects](#)

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## About Project Configurations

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Project configurations allow you to create multiple variations of the same integration project, so you can create and publish one project and deploy it to many different scenarios. Within a project configuration you can specify which orchestrations are enabled, modify configuration properties for endpoints, generate or modify assets, manage scheduled downtime rules, and control permissions for the project configuration.

Each project you publish has a Default project configuration. In the Management Console, you can create additional project configurations. The project name, project version, configuration name, and project state uniquely identify each project configuration.

You must have Administrator privileges or be the publisher of the specific project to create, edit, and delete project configurations. Administrators and publishers can grant users and groups permissions that allow them to a create, edit, and delete project configurations.

## Enabling and Disabling Orchestrations

---

The runtime only runs orchestration jobs for enabled orchestration. Before you can deploy a project configuration, the project configuration must contain at least one enabled orchestration. By default, all orchestrations are enabled.

Specifying the orchestration logging level allows you to control the type of orchestration errors that are written to the system logs. The Management Console also allows you to limit the number of jobs that run simultaneously. The number of jobs that run simultaneously can affect performance.

You must have administrator or publisher permissions to specify orchestration properties.

## Understanding Configuration Properties

---

You create these configuration properties for a project in Studio. For more information about creating project properties and specifying a project version, see the Studio online help.

When you publish the project, you can specify values for the configuration properties. The values you specify for the configuration properties determine how the project is deployed. For example, in a project that contains database endpoints, you can create properties for database connection parameters. This allows you to create a project configuration for a test environment connecting to a test database and then use the same project to create another project configuration for a production environment that connects to another database.

You must have administrator or publisher permissions to edit configuration properties in the Management Console.

## Modifying Assets

---

If your project configuration contains a database or WebServices endpoint, you must generate assets before you can deploy the project configuration. If your project does not contain a database or WebServices endpoint, assets are irrelevant to your project configuration.

You must have administrator or publisher permissions to generate or modify assets.

## Scheduling Downtimes

---

Scheduling downtime allows you to perform maintenance. You can create downtime rules for project configurations that stop or suspend all enabled orchestration jobs in that project configuration for a specified duration of time. The project configuration does not have to be undeployed to create or edit a downtime rule. Downtime rules can occur once or repeat at specific intervals.

You must have administrator or publisher permissions to create, edit, or delete a downtime rule.

## Editing Project Configuration Permissions

---

As an administrator or project publisher, you can grant permissions for project configurations to other users and groups. When you grant users or groups permissions to a project configuration they are able to create, edit, and delete the project configuration. By default, permissions to project configurations are granted to only the Administrator Group. If you want to grant permissions to another group you must explicitly do so.

For example, you are a user with publisher rights and belong to the built-in Publisher group. You publish a project. Only the Administrator Group and you have permissions to the project configuration. Members of the Publisher group, of which you are a member, do not have permissions to the project configuration. You must edit the permission on the project configuration to include another group like Publisher. For more information, see [Granting Project Configuration Permissions](#).

**Parent topic:** [Managing Projects](#)

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## About Projects

---

Projects contain components that the runtime needs to execute an integration scenario: orchestrations, endpoints, maps, and other documents. Use Studio to create and test projects without being connected to an integration environment.

Multiple people can publish multiple projects to the same integration environment. Use Studio to publish projects to an integration environment or export projects to a staging location. You can later use the Management Console to upload the exported project. You must have Administrator or Publisher privileges to publish or upload a project to the integration environment.

When you publish a project from Studio, the Management Console displays the project with default project settings; creating a default project configuration. You can clone this default project configuration to create new project configurations, which you can configure for separate development and production environments.

Use the Studio to create projects and specify endpoint configurations properties and then use the Management Console to specify project configurations and deploy project configurations.

**Parent topic:** [Managing Projects](#)

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## Cloning Project Configurations

---

### Before you begin

You must have Administrator privileges or be the publisher of a project to clone project configurations.

### About this task

Project configurations contain properties and assets that you can configure in the Management Console to create multiple variations of the same integration project. When you create a new configuration you can choose to clone an existing project configuration. A cloned project configuration inherits all the configurations from the original project configurations. However, if you edit the original configuration project, the changes are not propagated to the cloned project.

Note: The project configuration you clone does not display on the Favorites view, unless you explicitly add the project configuration to the view.

### Procedure

1. From the Navigation pane, select Repository > Configurations. The Project Configurations page is displayed.
2. From the Configuration Filter list, select All. All project configurations display.
3. Locate the project configuration you want to clone.
4. Click the Clone icon . The Create Project Configuration dialog box is displayed.
5. Provide a unique name for the new project configuration.
6. Click OK.

## Results

---

The cloned project configuration is displayed on the Project Configurations page. The cloned project has all the same project configuration details as the original project configuration.

**Parent topic:** [Managing Projects](#)

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[Feedback](#) | [Notices](#)

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## Copying Projects

---

### About this task

---

The Management Console allows you to copy a project by assigning a new version number to an existing project.

### Procedure

---

1. Click the Modify tab. The Projects page is displayed.
2. Click the project you want to copy. The Copy Project dialog is displayed.
3. Enter a new project version. The version number can contain a decimal.
4. Click Save.

## Results

---

The copy of the project is displayed in alphabetical order in the Projects page.

**Parent topic:** [Managing Projects](#)

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[Feedback](#) | [Notices](#)

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## Creating Projects From Scratch

---

### About this task

---

You can create a project from scratch in the cloud.

### Procedure

---

1. Click the Create tab. The Solutions page is displayed.
2. Click Create One From Scratch. The Create Project dialog box is displayed.
3. Specify a unique project name.
4. Click Save. The project displays in the Projects page of the Modify tab.

## Results

---

You can now take edit, publish, delete or copy your project. Select the project to view the project details and assign permissions to your project. If you do assign permissions, click Save to save your updates.

Project details include the environment to which the project configuration was published, a timestamp of the last time you published the project, and the current state of the project configuration. For example: deployed.

**Parent topic:** [Managing Projects](#)

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[Feedback](#) | [Notices](#)

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## Creating Projects From a Template

---

### About this task

---

You can create a project from a template. Templates are stored in the Solutions Repository. All users can create a template solution and upload it to the Solutions Repository.

Note: Not all templates in the Solutions Repository are certified. The templates that are certified are denoted with a Cast Iron® logo.

### Procedure

---

1. Click the Create tab. The Solutions page is displayed.
2. Search for a template.
  - a. Select a source endpoint.
  - b. Select a target endpoint.
  - c. Click Search

You can also select the Keyword Search option to search for a template using a keyword.

3. Choose a template from the solutions that are returned. The template details are displayed.
4. Click Create a project based on this template. Studio Cloud opens and the wizard guides you through the process of creating your project.

**Parent topic:** [Managing Projects](#)

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## Deleting Project Configurations

---

## Before you begin

---

The publisher of a project configuration, the environment administrator, or tenant administrator can delete project configurations. The publisher of a project configuration can grant permissions that allow other users to delete his project configuration. The environment administrator can grant permissions that allow other users to delete any project configuration in the environment. The tenant administrator can grant permissions that allow other users to delete any project configuration in the tenant.

Project configurations must be undeployed before you can delete them.

## About this task

---

When you delete a project configuration, all monitoring history associated with the project configuration is also deleted.

## Procedure

---

1. Select the environment tab, where the project configuration is published. A list of project configurations is displayed in the Project Configuration section of the Dashboard.
2. Verify that the project configuration you want to delete is undeployed. The state displays in parentheses () at the end of the project configuration name. For example, (undeployed)
3. If the project configuration is in any other state but undeployed, undeploy the project configuration by clicking the Undeploy icon in the Actions column.
4. In the Actions column, click the Delete icon. The Delete Project Configuration dialog box is displayed.
5. Click Yes.

## Results

---

The project configuration is deleted and no longer available.

**Parent topic:** [Managing Projects](#)

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[Feedback](#) | [Notices](#)

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## Deleting Projects

---

### Before you begin

---

The publisher of a project, the environment administrator, or tenant administrator can delete projects. The publisher of a project can grant permissions that allow other users to delete his project. The environment administrator can grant permissions that allow other users to delete any project in the environment. The tenant administrator can grant permissions that allow other users to delete any project in the tenant.

## Procedure

---

1. Select the Modify tab. The Projects page displays a list of projects that can be published.
2. In the Actions column, click the Delete icon. The Delete Project? dialog box is displayed.
3. Click Yes.

## Results

---

The project is deleted; however, any project configurations created from this project are still available.

**Parent topic:** [Managing Projects](#)

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## Deploying Project Configurations

---

### Before you begin

---

To deploy or undeploy project configurations, you must have tenant administrator or environment administrator privileges, or be the publisher of the project configuration.

### About this task

---

The type of endpoint in an orchestration determines the steps you must complete to deploy a project configuration. A project configuration must contain at least one enabled orchestration before you can deploy the project configuration. If the orchestration contains a database or Web Services endpoint, you must also generate assets for the endpoints before you can deploy the project configuration.

By default, all the orchestrations in a project configuration are enabled. Therefore, if the orchestrations in a project configuration do not require additional configuration and do not access database or Web Services endpoints, you can deploy your project configuration by clicking the deploy icon next to the project configuration in any of the Project tabs. If your project configuration requires assets or additional configuration, see the following deployment procedure.

Note: A project configuration must be in the stopped state for you to undeploy the project configuration.

### Procedure

---

1. Select the environment tab to which you published your project.
2. In the Project Configuration section, select the project configuration you want to deploy. The Configuration Details page is displayed.
3. In the Orchestrations section, verify that at least one orchestration in the project configuration is enabled. Edit orchestration settings, as needed.

You cannot edit orchestration settings while a project configuration is running. Stop and undeploy the project configuration to edit configuration settings.

4. In the Properties section, edit configuration properties, as needed.

You cannot edit configuration properties while a project configuration is running. Stop and undeploy the project configuration to edit configuration settings.

5. If the project configuration contains a Database or Web Services endpoint, you must generate assets for these endpoints.
6. Optional: Add a schedule downtime rule.
7. Optional: Assign permissions for the project configuration, which specify which group of users can edit and deploy a project configuration. By default, tenant administrators, environment administrators, and the publisher of a project configuration can edit and deploy a project configuration.
8. If you assign permissions, click Save.
9. In the Summary section, click the Deploy icon  to deploy the project configuration.

### Results

---

The project configuration deploys, the runtime starts to process orchestration jobs, and the status is appropriately updated in the Summary section.

**Parent topic:** [Managing Projects](#)

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## Editing Project Configuration Properties

---

### Before you begin

---

You must have administrator or publisher permissions to edit configuration properties.

### About this task

---

You create configuration properties for an integration project in Studio, before you publish the project to an environment in the cloud. When you publish the project, you can specify values for the configuration properties. Configuration properties allow you to move a project configuration from a staging environment to a production environment.

For example, in a project that contains database endpoints, you can create properties for database connection parameters. This allows you to create a project configuration for a test environment connecting to a test database and then use the same project to create another project configuration for a production environment that connects to another database.

### Procedure

---

1. Select the environment tab, where the project configuration is published.
2. From the navigation pane, select Repository > Configurations. The Project Configuration page is displayed.
3. If the project configuration you want to edit is running, stop the project configuration by clicking the  Stop icon in the Actions column. When the Stop Configuration dialog box displays, click one of the following options:
  - o **Finish Jobs** - At the specified time, prevents any new orchestration jobs from starting while allowing current jobs to finish processing. Allow the jobs to end.
  - o **Cancel Jobs** - At the specified time, prevents any new orchestration jobs from starting and stops all currently running jobs. This action immediately stops all jobs.
4. Click the project configuration you want to edit. The Configuration Details page displays.
5. In the Properties section, click Edit to edit configuration property values.
6. Modify the configuration properties.
7. Click Save.

### Results

---

The Configuration Details page displays the updated configuration property values.

**Parent topic:** [Managing Projects](#)

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## Editing Projects

---

### About this task

---

You can edit projects in the cloud using Studio Cloud.

## Procedure

---

1. Select the Modify tab and click the project name. Studio Cloud opens.
2. Edit the project as needed.
3. Click Save.

**Parent topic:** [Managing Projects](#)

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[Feedback](#) | [Notices](#)

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# Publishing Projects

---

## Before you begin

---

You must be a tenant administrator, environment administrator, or environment publisher to publish projects.

## About this task

---

Publishing a project uploads a project from Studio to a runtime environment.

## Procedure

---

1. In the Management console, select the Modify tab. The Projects page is displayed.
2. In the Actions column, click the Publish Project icon. A lists displays all the environments in the tenant.
3. Select the environment to which you want to publish the project.

## Results

---

A confirmation displays. The project is available in the environment you selected.

**Parent topic:** [Managing Projects](#)

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# Push WSDL from Cast Iron Project to API Management

---

## Before you begin

---

You need to have valid IBM ID account on Cast Iron Live & API management to use this feature.

## About this task

---

This topic details how you can quickly create API in IBM API Management from WebSphere Cast Iron Project (WSDL) in a seamless manner.

## Procedure

---

1. Login to Cast Iron Live using your IBM ID.
2. Go to your Project configuration screen, click on the project which needs to be published to IBM API Management. This displays the Configuration Details of the project to be published.
3. Click on the Asset and select the orchestration whose WSDL need to created as API in IBM API Management.
4. Click on Push to API Management button at the bottom of the screen. Click OK in the popup confirmation window.

## Results

---

A new tab on your browser opens with the newly created API.

**Parent topic:** [Managing Projects](#)

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[Feedback](#) | [Notices](#)

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# Push REST API (Swagger) from Cast Iron Project to API Management

---

## Before you begin

---

You need to have valid IBM ID account on Cast Iron Live & API management to use this feature. Also, you need to [Specify the swagger information](#) in HTTP Receive Request activity.

## About this task

---

This topic details how you can quickly create API in IBM API Management from WebSphere Cast Iron Project in a seamless manner.

## Procedure

---

1. Login to Cast Iron Live using your IBM ID.
2. Go to your Project configuration screen, click on the project which needs to be published to IBM API Management. This displays the Configuration Details of the project to be published.
3. Click on Push to API Management button at the bottom of the screen. Click OK in the popup confirmation window.

## Results

---

A new tab on your browser opens with the newly created API.

**Parent topic:** [Managing Projects](#)

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# Reviewing TIPs

---

You can rate and provide a review for all TIPs that you download. Ratings are given on a scale of 1-5, where 5 is the highest rating. When you submit your rating and review for a TIP, Studio uploads the information to the WebSphere® Cast Iron® Solutions Repository. Your rating is combined with any other ratings that have been submitted by other reviewers and the average is displayed in the Details pane of the specific TIP.

**Parent topic:** [Managing Projects](#)

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[Feedback](#) | [Notices](#)

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# Stopping Project Configurations

---

## About this task

There are two ways to stop a running project configuration:

- **Stop (allows jobs to finish)** - When you click Finish Jobs, prevents any new orchestration jobs from starting while allowing current jobs to finish processing. This action allows the Integration Appliance to end.
- **Stop (cancel running jobs)**- When you click Cancel Jobs, this option prevents any new orchestration jobs from starting and stops all currently running jobs. This action immediately stops all jobs.

## Procedure

1. From the Project Configurations page, select a project configuration.
2. In the Actions column, click the Stop icon . The Stop Configuration window is displayed.
3. Click either Finish Jobs or Cancel Jobs to stop the project configuration.

**Parent topic:** [Managing Projects](#)

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# Uploading Project Configurations

---

## Before you begin

To upload a project configuration, you must have tenant administrator, environment administrator, or environment publisher permissions.

## About this task

When you upload a project configuration, you are publishing a project using a two-stage process. First, you export a project from Studio to an intermediate location. Then from the Management Console, you upload the project to a cloud environment.

## Procedure

---

1. Select the environment tab, to which you want to upload the project configuration.
2. From the Navigation pane, select Repository > Upload Project. The Upload Project Configuration dialog box is displayed.
3. In the Local Project File field, specify the path from which to upload the project. You can click Browse to select a file from your local machine.
4. Specify a project name. The name should not exceed 42 characters and should not contain any restricted characters.
5. Specify a product version number. This field is not populated with the project version you specified in Studio. However as a best practice, you should specify a project version that matches the version you specified in Studio.
6. Click Upload.

## Results

---

The project configuration is displayed in the cloud environment Project Configuration page.

**Parent topic:** [Managing Projects](#)

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## Working with Project Configurations

---

Various views are available for project configurations:

- **All** - Displays the deployment state and status of all project configurations, regardless of the state of the project configuration. You can clone or delete project configurations from this view.
- **Recent** - Displays the deployment state and status of the most recently published or modified project configurations. You can clone or delete project configurations from this view.
- **Favorites** - Displays the deployment state and status of project configurations for which you have permissions. By default, this view is not populated. You must explicitly add project configurations from either the Recent view or All view.

You can access these views from the Dashboard or by selecting the following path in the Navigation pane: Repository > Configurations. The Configuration Filter allows you to choose your view from a drop-down list.

The following table describes information available in the various project configuration views:

Columns in Project Configuration Views	Descriptions
Configuration	Displays published project configurations.
Running	Displays the number of currently running jobs for the project configuration.
Completed	Displays the number of orchestration jobs, for the project configuration, that were completely processed.  When orchestration monitoring data is purged, the number of orchestration jobs is reset to 0. For more information about modifying log purging parameters, see the purging help topics.
Errored	Displays the number of orchestration jobs where a runtime error occurred for the project configuration.  When orchestration monitoring data is purged, the number of orchestration jobs is reset to 0. For more information about modifying log purging parameters, see the purging help topics.

Columns in Project Configuration Views	Descriptions
Total	<p>Displays the total number of orchestration jobs, for the project configuration, that have run.</p> <p>When orchestration monitoring data is purged, the number of orchestration jobs is reset to 0. For more information about modifying log purging parameters, see the purging help topics.</p>
Actions	<p>Displays the state of project configurations, as well as options for you to delete  or clone  project configurations.</p> <p>  Clicking this icon deploys and runs a project configuration.   Clicking this icon causes the runtime to suspend the orchestration job processing of the project configuration.   Clicking this icon undeploys a project configurations. You must stop the project configuration before you can undeploy the project configuration.   Clicking this icon stops the runtime from processing orchestration jobs for the project configuration.  When you stop a project configuration, you can choose to have the runtime completely process all currently running jobs or have the runtime cancel all currently running jobs.   Only available in All and Recent views. Clicking this icon adds the project configuration to Favorites.  When the Management Console displays the project configuration in Favorites, this icon is no longer active next to the project configuration in the All and Recent views.   Clicking this icon removes the project configuration from Favorites, but does not delete the project configuration from the environment. You can view the project configuration from the All and Recent views. </p>

**Parent topic:** [Managing Projects](#)

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## Monitoring

---

Monitoring topics provide information about creating and managing notifications, viewing hardware status, searching orchestration jobs, and viewing orchestration job logs.

- [About Environment Dashboards](#)
  - [Choosing a Notification Level](#)
  - [Creating Notification Policies](#)
  - [Deleting Notification Policies](#)
- You can delete one or more notification policies.
- [Editing Notification Policies](#)
  - [Enabling Email Notification Policies](#)
  - [Searching for Orchestration Jobs](#)
  - [Viewing Orchestration Job Logs](#)

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## About Environment Dashboards

---

An environment dashboard provides multiple snapshot views of project configurations and jobs, a list of unresolved critical system errors, and an overall project configurations summary, and status of Secure Connectors. The Dashboard also allows you to search for orchestration jobs by job key. The Search box is located in the Results section of the dashboard.

To expand the views of the Critical Alerts and Secure Connector Summary, click the icon in the upper right corner. An expanded view of Project Configuration is available by selecting Repository > Configurations from the navigation pane. An expanded view of Results is available by selecting Repository > Job Log from the navigation pane.

A dashboard is available for each environment in a multi-environment cloud. The information the dashboard displays is specific to its environment.

**Parent topic:** [Monitoring](#)

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## Choosing a Notification Level

---

Notification levels define the severity of events that can trigger an alert. When you specify a notification level, an alert is only sent for errors that meet or exceed the level you choose. 

Note: If you do not receive notifications for events, it might be that you do not have the system log level set to produce entries that would trigger a notification. For example, if you chose the Error level for Deployment, all events that were Error or Critical level in the Deployment system are logged.

You can specify the following notification levels:

Notification Level	Description
Critical	Sends an alert when an error condition causes the a shutdown.
Error	Sends an alert when non-critical issues that must be handled immediately occur.
Warning	Sends an alert when potential error conditions occur.
Info	Sends an alert for informational usage.

**Parent topic:** [Monitoring](#)

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# Creating Notification Policies

---

## About this task

---

Notification policies allow you to monitor potential errors in a specific system. When you create a notification policy, the notification policy monitors the system log for the system you specify. When a system log event occurs that meets or exceeds the notification level of a notification policy, an alert is sent to the specified users.

Note: If you do not receive notifications for events, it might be that you do not have the system log level set to produce entries that would trigger a notification or you did not enable the notification policy. For more information about specifying system log settings, see [Specify System Log Settings](#). For more information about enabling email notification policies, see [Enabling Email Notification Policies](#).

## Procedure

---

1. Click the environment for which you will create a notification policy. The Navigation pane is displayed.
2. Select Logs > Notifications. The Notifications page is displayed.
3. Click New Policy. The New Policy dialog box is displayed.
4. Specify a policy name.
5. From the Level Exceeds list, select a level. Alerts are only sent for errors that exceed the level you choose.
6. From the With System list, select the system you want the notification policy to monitor.
7. Specify the email address or addresses of the person or people that will receive the email notification. When you have multiple email addresses, add one email address per line.
8. Click Save.

## Results

---

The new policy displays on the Notifications page. You must enable email notifications before any alerts can be sent. If the Email status displays as (inactive), email notifications are not enabled.

**Parent topic:** [Monitoring](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Monitoring/creatingNotificationPolicies.html>

# Deleting Notification Policies

---

You can delete one or more notification policies.

## Procedure

---

1. Click the environment for which you will delete a notification policy. The Navigation pane is displayed.
2. Select Logs > Notifications. The Notifications page is displayed.
3. Select the check box next to the policy you want to delete.

To delete multiple policies, select the top check box. All the policies are selected.

4. Click Delete. The Delete Policies? confirmation window is displayed.
5. Click Yes.

## Results

---

The policy is deleted and is no longer displayed in the Notifications page.

**Parent topic:** [Monitoring](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Monitoring/deletingNotificationPolicies.html>

## Editing Notification Policies

---

### Procedure

1. In the Navigation pane, select Logs > Notifications. The Notifications page is displayed.
2. Click a notification policy. The Edit Policy dialog box is displayed.
3. Update the appropriate notification settings.
4. Click Save.

### Results

---

The updated policy is displayed on the Notifications page. You must enable email notifications before any alerts can be sent. If the Email status is displayed as (inactive), email notifications are not enabled.

**Parent topic:** [Monitoring](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Monitoring/editingNotificationPolicies.html>

## Enabling Email Notification Policies

---

### About this task

---

When you create an email notification policy, you must enable the email notification policy for alerts to be sent. By default, email notifications are not enabled.

If you enable email notification policies, the settings you specified when you created the email notification determine when an email alert is sent.

Note: If you disable the email notification policy by clearing the Enable Email option, alerts are not delivered for any email notification policy.

### Procedure

---

1. Click the environment for which you will enable an email notification policy. The Navigation pane is displayed.
2. Select Logs > Notifications. The Notifications page is displayed.
3. At the top of the page, click the Email link. The Enable Email option is displayed.
4. Select the Enable Email option.
5. Optional: Provide a email subject line that will qualify the alert sent.
6. Click Save.

### Results

---

The Notifications page is displayed with the new policy and the Email status changes from (Inactive) to (Active). Email notifications will now be sent when an event that triggers the notification policy occurs.

**Parent topic:** [Monitoring](#)

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[Feedback](#) | [Notices](#)

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## Searching for Orchestration Jobs

---

### About this task

Job IDs and keys allow you to search for orchestration jobs. You define primary message keys in Studio, when you configure connectors. The primary message key must be a unique value. For example, the purchase order number for a purchase order message. If you do not define a primary key, the runtime uses the job ID, a unique number that the runtime generates, to identify an orchestration job.

From the Management Console, you can search orchestration jobs by job ID. By default, the Management Console searches only for completed orchestration jobs that match the job ID you specify. Use the Advanced Search option to search for all other orchestration jobs.

### Procedure

---

1. From the navigation pane, select Dashboard.
2. In the Results section, enter a job ID in the Key Search field.
3. From your keyboard, press Enter. The completed job with the matching job ID displays.

**Parent topic:** [Monitoring](#)

## Using Advanced Search

---

### About this task

Use the Advanced Search option to further refine your job search. If you enter values for multiple fields in the Advanced Search box, the Management Console uses AND logic to refine the search.

For example, you specify a time range in addition to selecting the errored status. The Management Console searches for all orchestration jobs that had an error within the time range specified.

Note: If you choose to search by date and time, you must specify a start and end date and time.

### Procedure

---

1. From the navigation pane, select Dashboard.
2. In the Results section, select an orchestration. The Orchestration Details page displays all the jobs associated with the orchestration.
3. In the Advanced Search box, specify values for Job ID, Key, Status, Start Date and Time, or End Date and Time as appropriate for your search.  
Note: If you choose to search by date and time, you must specify a start and end date and time.
4. Click Search.

## Results

---

The search results are displayed in the table.

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Monitoring/searchingOrchestrationJobs.html>

## Viewing Orchestration Job Logs

---

The Dashboard displays information about orchestration jobs, including status, timestamp of job events, and key/job ID in multiple tabs:

- **All** - displays orchestration job information for all project configurations.
- **Recent** - displays orchestration job information for the most recently published or modified project configurations.
- **Favorites** - displays orchestration job information for the project configurations displayed in the Favorites filter. Orchestration job information displayed through this filter also displays in the Recent and All filters.

In some cases, the Management Console displays an orchestration job status of Unknown, even though the orchestration job completed successfully. Rebooting the environment, while orchestration jobs are processing, can result in the Unknown status because monitoring data is lost during the reboot. Stop all orchestration jobs before rebooting the environment to avoid an Unknown status.

Click an orchestration job to view the orchestration details for that orchestration. The Orchestration Details page displays all the jobs associated with the orchestration you selected and the status of each individual job. Use the Left and Right arrows (<< , < , > , >>) to view all orchestration jobs.

**Parent topic:** [Monitoring](#)

## Sorting Orchestration Jobs

---

### About this task

You can search orchestration jobs by job ID. To sort orchestration jobs by project configuration name, orchestration name, status, time, or job ID click the appropriate column header.

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## Permissions

---

Permissions topics provide information about creating user profiles, setting and changing passwords, creating and managing users, and creating and managing groups.

- [About Built-In Groups](#)
- [About Libraries Environments](#)
- [About User Profiles](#)
- [Assigning Users to Groups](#)
- [Changing Your Password](#)
- [Changing User Passwords](#)
- [Creating New Groups](#)
- [Creating New Users](#)

- [Deleting Groups](#)
- [Deleting Users](#)
- [Granting Project Configuration Permissions](#)

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#### [Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Permissions/toc\\_permissions.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Permissions/toc_permissions.html)

## About Built-In Groups

---

Built-in groups are predefined groups. In the cloud, in addition to a tenant administrator group, each environment has a built-in administrator, publisher, and user group.

For example: A tenant, named Cumulus, is created for your organization. Within this tenant there are two environments: Development and Production. The following built-in groups would be available:

- admin [cumulus.com]
- admin [Development]
- publisher [Development]
- user [Development]
- admin [Production]
- publisher [Production]
- user [Production]

The same user can be a part of multiple groups. You can assign users to a built-in group or create a new group.

Note: If you grant project configuration permissions to a group, the users in that group will have full access to the project configuration- the user will be able to create new versions of the project configuration, as well as edit and delete the project configuration.

The following list defines the permissions granted to each of the built-in groups:

- **Tenant Administrator Group.** Provides privileges to all environments, users, groups, and projects in a specific tenant. Permits users to create, edit, and delete users and custom groups in the tenant. Users in this group can add and delete users to and from any built-in or custom group in the tenant. Users in this group can view, edit, and delete permissions for all source projects in the tenant.

Users in this group can view all the environments in the tenant and have all the permissions of an environment administrator in each of the tenant environments.

- **Environment Administrator Group.** Provides privileges to all users, groups, and projects in a specific environment. Permits users to create, edit, and delete users and custom groups in a specific environment. Users in this group can add and delete users to and from any built-in or custom group in the environment.

Environment Administrators can also create and deploy project configurations for project that any environment publisher publishes, and view orchestration job details for any project configuration in the environment. With environment administrator group privileges you can edit permissions that publishers for the same environment set for their individual project configurations.

Even though members of the Environment Administrator group have Environment Publisher group and Environment User group privileges, the members of the Environment Administrator Group do not appear in other groups in the same environment until you explicitly add the user.

- **Environment Publisher Group.** Provides project privileges in a specific environment. Permits users to create, deploy, or delete project configurations for any project that they publish in the environment. Users in this group can also start and stop orchestrations and view orchestration job details for project configurations they deployed in the environment. As an environment publisher, you can grant permissions for individual project configurations you create to another user with environment publisher privileges for the same environment.

The members of the Environment Publisher Group are not displayed in the Environment User Group, until you explicitly add the user.

- **Environment User Group.** Permits users to monitor alerts and orchestrations in a specific environment. Users in this group can create and edit projects; however, they cannot publish the project to an environment. You must have Publisher privileges for the specific environment to which you want to publish a project. All users are automatically members of the Environment User group.

In a multi-environment tenant, users in this group only see the environment tab for environments of which they are a member. For example, a tenant has a Development, a Staging, and a Production environment. The tenant administrator or administrator of the Development environment adds a user to the User [Development] group. When the user logs in to the tenant, the user can only see the Development environment, even though the tenant has two other environments.

**Parent topic:** [Permissions](#)

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[Feedback](#) | [Notices](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Permissions/aboutBuiltInGroups.html>

## About Libraries Environments

---

Libraries Environment is a user profile parameter that specifies the environment from which Studio retrieves connector libraries.

In a multi-environment tenant, each environment can potentially have different versions of connector libraries installed. Setting this parameter points Studio to the libraries you want to use while verifying your projects. This parameter is not as critical if your project does not use an endpoint that requires additional libraries to be installed. See the Connector Release Notes for a complete list of endpoints that require you to install additional libraries.

Note: The environment you select should match the environment of the primary group the user is a member of. For example: If you select the Development environment as the Libraries Environment, you should be a member of groups in the Development environment.

**Parent topic:** [Permissions](#)

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[Feedback](#) | [Notices](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Permissions/aboutLibrariesEnvironments.html>

## About User Profiles

---

A user profile provides a summary of user details, such as: name, display name, email, and group memberships. The user profile displayed is for the user currently logged in to the Management Console.

From the User Profile window, you can change the user password and specify libraries environments.

**Parent topic:** [Permissions](#)

## Accessing User Profile Information

---

### Procedure

1. Click your username in the upper right corner of the Management Console. The User Profile window is displayed.

2. Optional: Click Change Password, to change the user password.
3. Optional: Click Change Libraries Environment, to specify the environment from which Studio retrieves connector libraries.
4. Click Save to save any updates to the user profile.
5. Click Close to close the User Profile window.

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[Feedback](#) | [Notices](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Permissions/aboutUserProfiles.html>

## Assigning Users to Groups

---

You must have tenant administrator or environment administrator privileges to assign users to groups. Environment administrators can only add users to groups in their specific environment.

You can assign users to groups, when you create or edit a user. You can also assign users to groups, when you create or edit groups.

For more information about assigning users and groups, see [Creating New Users](#) and [Creating New Groups](#).

**Parent topic:** [Permissions](#)

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[Feedback](#) | [Notices](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Permissions/assigningUsersToGroups.html>

## Changing Your Password

---

### About this task

You can change your own password at anytime. However, to modify another user's password, you must have tenant administrator permissions. Environment administrators cannot change passwords for users in their environment.

For example, you are the administrator for the Development environment. You can change your password, but you cannot change the password for any specific user with permissions to the Development environment.

### Procedure

1. Click your username in the upper right-hand corner of the Management Console. The User Profile window is displayed.
2. Click Change Password.
3. Enter values for the Old Password, New Password, and Confirm Password fields.

If you clear the Hide Password Text option, your password displays and is no longer encrypted.

4. Click Save to change your password.

### Results

---

A confirmation message is displayed when the Management Console has successfully saved the new password.

**Parent topic:** [Permissions](#)

 Last updated: Thursday, 2 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Permissions/changingPassword.html>

## Changing User Passwords

---

### About this task

---

You can change your own password at anytime. However, to modify another user's password, you must have tenant administrator permissions. Environment administrators cannot change passwords for users in their environment.

For example, you are the administrator for the Development environment. You can change your password, but you cannot change the password for any specific user with permissions to the Development environment.

To change another user's password:

### Procedure

---

1. Log in to the Management Console as the tenant administrator.
2. Select Setup > Users and Groups.
3. Click the name of the user whose password you want to change.
4. In the Edit User window, enter a password and confirm the password.

If you clear the Hide Password Text option, your password displays and is no longer encrypted.

5. Click Save to change your password.

### Results

---

A confirmation message displays when the Management Console has successfully saved the new password.

**Parent topic:** [Permissions](#)

 Last updated: Thursday, 2 June 2016  
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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Permissions/changingPasswordOthers.html>

## Creating New Groups

---

### Before you begin

---

In the cloud, only the tenant admin user can create new groups. In a multi-environment tenant, environment administrators can also create new groups for their specific environment.

On a physical or virtual Integration Appliance, only admin users can create new groups.

### Procedure

---

1. In the Management Console, login as administrator.
2. Select Setup > Users and Groups.
3. In the New Group dialog box, enter a Name and Display Name for the new group.

4. From the Scope list, select the scope of permissions you want to grant the group. You can select to give permissions to the entire tenant or to a specific environment.
5. In the User list, select the users to join the group.

Select the User checkbox to select all the users in the list.
6. Click Save.

## Results

---

In the Groups section of the Users and Groups page, the new group is displayed in alphabetical order.

**Parent topic:** [Permissions](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Permissions/creatingNewGroup.html>

## Creating New Users

---

### Before you begin

In the cloud, only the tenant admin user can create new users. In a multi-environment tenant, environment administrators can also create new users for their specific environment.

On a physical or virtual Integration Appliance, only admin users can create new users.

### Procedure

---

#### 1. Tenant migrated from v7.0

- a. In the Management Console, login as administrator.
- b. Select Setup > Users and Groups.
- c. In the New User window, enter a value for the following fields: Name, Display Name, Email, Password, and Confirm Password.

Specify the user name without the @tenantname as that will be appended by default.

If you clear the Hide Password Text option, your password displays and is no longer encrypted.

- d. From the Libraries Environment list, select the environment from which the user's projects can retrieve additional libraries and files for endpoints. The environment you select should match the environment of the primary group the user is a member of. For example: If you select the Development environment as the Libraries Environment, you should be a member of groups in the Development environment.
- e. In the Groups list, select all the groups to which the new user will have access.
- f. Optional: Clear the Active checkbox. If you clear this option, the user cannot log in to the Management Console.
- g. Click Save.

#### 2. New v7.5 Tenant with 'My IBM Cloud' link

##### a. Users who neither have an existing Cast Iron account nor any other IBM subscription

- i. In the Management Console, login as administrator.
- ii. Click My IBM Cloud > Manage Users > Add User Account.
- iii. In the Add User window, enter a value for the following fields: IBM ID, First Name, Last Name.  
Note: Specify a valid IBM ID in the IBM ID field.
- iv. Choose the Account Administrative Role to be Administrator.
- v. Click Save.

##### b. Users who do not have an existing Cast Iron account but have some other IBM subscription

- i. In the Management Console, login as administrator.
- ii. Click My IBM Cloud > Services > Invite User.
- iii. In the Invite User window, enter a value for the following fields: First Name, Last Name, Email.

- Note: If the Email is not a valid IBM ID, the IBM ID will be created and the user will need to set the password for it at the time of activation.
- iv. Choose the Account Administrative Role to be Administrator.
  - v. Click Invite.
- c. **Users with an existing Cast Iron account**
- i. In the Management Console, login as administrator.
  - ii. Select Setup > Users and Groups.
  - iii. In the Add User window, enter a value for the following fields: Name, Display Name, Email.  
Note: Specify a valid IBM ID in the Name field.
  - iv. From the Libraries Environment list, select the environment from which the user's projects can retrieve additional libraries and files for endpoints. The environment you select should match the environment of the primary group the user is a member of. For example, if you select the Development environment as the Libraries Environment, you should be a member of groups in the Development environment.
  - v. In the Groups list, select all the groups to which the new user will have access.
  - vi. Clear the Active checkbox. If you clear this option, the user cannot log in to the Management Console.
  - vii. Click Save.
3. **New v7.5 Tenant without the 'My IBM Cloud' link**
- a. In the Management Console, login as administrator.
  - b. Select Setup > Users and Groups.
  - c. In the Add User window, enter a value for the following fields: Name, Display Name, Email.  
Note: Specify a valid IBM ID in the Name field.
  - d. From the Libraries Environment list, select the environment from which the user's projects can retrieve additional libraries and files for endpoints. The environment you select should match the environment of the primary group the user is a member of. For example: If you select the Development environment as the Libraries Environment, you should be a member of groups in the Development environment.
  - e. In the Groups list, select all the groups to which the new user will have access.
  - f. Optional: Clear the Active checkbox. If you clear this option, the user cannot log in to the Management Console.
  - g. Click Save.

## Results

---

In the Users section of the Users and Groups page, the new user is displayed in alphabetical order.

**Parent topic:** [Permissions](#)

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[Feedback](#) | [Notices](#)

>Last updated: Thursday, 4 August 2016  
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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Permissions/creatingNewUser.html>

## Deleting Groups

---

### Before you begin

In the cloud, only the tenant admin users can delete groups from a cloud environment. In a multi-environment tenant, environment administrators can also delete groups for their specific environment.

On a physical or virtual Integration Appliance, only admin users can delete groups.

### Procedure

---

1. In the Management Console, select Setup > Users and Groups.
2. In the Groups section, select the groups that you want to delete.
3. Click Delete.
4. Click Yes, to confirm that the Management Console should delete the selected groups.

## Results

---

The Management Console refreshes the list of groups.

**Parent topic:** [Permissions](#)

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[Feedback](#) | [Notices](#)

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file:///dcs/markdown/workspace/Transform/out.html

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Permissions/deletingGroups.html>

## Deleting Users

---

### Before you begin

In the cloud, only the tenant admin user can delete users from a cloud environment. In a multi-environment tenant, environment administrators can also delete users for their specific environment.

On a physical or virtual Integration Appliance, only admin users can delete users.

### Procedure

---

1. In the Management Console, login as administrator.
2. Select Setup > Users and Groups.
3. In the Users section, select the users you want to delete.
4. Click Delete.
5. Click Yes, to confirm that the Management Console should delete the selected users.

### Results

---

The Management Console refreshes the list of users.

**Parent topic:** [Permissions](#)

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Permissions/deletingUsers.html>

## Granting Project Configuration Permissions

---

### Before you begin

You must have Administrator privileges or be the publisher of a project to grant permissions to other users or groups to create, edit, or delete project configurations.

### About this task

---

Once you grant permissions to a user or group, they can edit or delete the project configuration. By default, permissions to project configurations are granted to only the Administrator Group. If you want to grant permissions to another group you must explicitly do so.

For example, you are a user with publisher rights and belong to the built-in Publisher group. You publish a project. Only the Administrator Group and you have permissions to the project configuration. Members of the Publisher group, of which you are a

member, do not have permissions to the project configuration. You must edit the permission on the project configuration to include another group like Publisher.

## Procedure

---

1. Click on a project configuration. The Configuration Details page is displayed.
2. In the Permissions section, select users and groups to grant permissions to.
3. Click Save.

## Results

---

All the users and groups you select now have full access to the project configuration. These users and groups can now create new project configurations, edit the project configuration and any new project configurations they create, and delete the source project.

**Parent topic:** [Permissions](#)

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[Feedback](#) | [Notices](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Permissions/grantingProjectConfigurationPermissions.html>

## Using Secure Connectors

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Using Secure Connectors topics provide information about creating, installing, and managing Secure Connectors.

- [About Secure Connectors](#)  
This topic provides information about minimum system requirements needed to use a Secure Connector.
- [Creating Secure Connectors](#)  
This topic provides information about creating Secure Connectors.
- [Downloading Secure Connector Configuration Files](#)  
How to download Secure Connector configuration files.
- [Installing Secure Connectors](#)  
Provides the procedures to download the Secure Connector installer and install the Secure Connector.
- [Adding or importing certificates to the Secure Connector TrustStore/KeyStore](#)  
For Cast Iron connector activities, such as HTTP, FTP, Email, or Web Services (or any other connector) that need to establish connection with the SSL enabled server (HTTPS/FTPS), you must import the corresponding certificates into the TrustStore or KeyStore of the Secure Connector.
- [Installing Vendor Supplied Libraries for Secure Connectors](#)  
Certain endpoints require additional libraries to be installed before the Secure Connector can communicate with them. This section provides information about using the Cloud Management Console to install these vendor supplied libraries. For a complete list of connectors that require vendor supplied libraries, open the Update Connector Libraries page in the Cloud Management Console.
- [Downloading and installing the SAP Jar Files and DLLs](#)  
To connect to an SAP system from studio, you must install SAP DLLs and jar files onto your Windows development machine. You must have the SAP login credentials to enter the SAP Support Portal and download the files.
- [Uninstalling Secure Connectors \(Windows\)](#)  
This topic provides information about uninstalling a Secure Connector from a Windows machine.
- [Uninstalling Secure Connectors \(Linux\)](#)  
This topic provides information about uninstalling a Secure Connector from a Linux machine.
- [Starting and Stopping Secure Connectors](#)  
Starting and Stopping Secure Connectors topics provide information about starting and stopping Secure Connectors on Windows and Linux machines. For Windows machines, options you chose during installation affect how you can start and stop Secure Connectors. If you installed the Secure Connector as an automatic Windows Service, as recommended, then you can use the Windows Services control panel to stop and start the Secure Connector. If you installed the Secure Connector as a Windows application, then you can start and stop the Secure Connector using Windows Start menu shortcuts or desktop

shortcuts. For Linux machines, you can start and stop Secure Connectors by using a graphical interface or by running commands from the command line.

- [Upgrading Secure Connectors](#)

This topic provides information about upgrading Secure Connectors.

- [Updating Secure Connector Configuration](#)

This topic provides information about updating Secure Connector configuration.

- [Troubleshooting Secure Connectors](#)

This topic provides potential solutions for issues you have with the Secure Connector.

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## About Secure Connectors

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A Secure Connector facilitates the secure transfer of data between the IBM® WebSphere® Cast Iron® Cloud and an endpoint located behind a firewall. The Secure Connector installer for appliance supports both 32-bit and 64-bit Windows and Linux machines.

To enable a Secure Connector a tenant administrator must complete the following tasks:

- Create a Secure Connector.
- Download the Secure Connector configuration file.
- Launch the Secure Connector installer.
- Install vendor supplied libraries.

**Parent topic:** [Using Secure Connectors](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Secure\\_Connector/aboutSecureConnectors.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Secure_Connector/aboutSecureConnectors.html)

## Secure Connector Minimum Requirements

---

This topic provides information about minimum system requirements needed to use a Secure Connector.

You can run the Secure Connector on the following operating systems:

- Microsoft Windows 7
- Microsoft Windows 8
- Microsoft Windows 2008
- Microsoft Windows 2012 R2 64 bit server
- Linux (RHEL 6.5, Ubuntu 14.04)

Note: For installing Secure Connectors on Linux platform, use xWindows or KDE environment to use the GUI option.

The Secure Connector has the following minimum system requirements:

- 1 GHz CPU

- 2 GB RAM
- Java 1.7 and above.

**Parent topic:** [Using Secure Connectors](#)

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## Creating Secure Connectors

---

This topic provides information about creating Secure Connectors.

### About this task

---

Use the Management Console to create a Secure Connector for your environment.

After you create a Secure Connector in the cloud, you must configure a machine behind the firewall to facilitate communication between the Secure Connector and a specific endpoint behind the firewall. Use the Secure Connector installer to configure the machine behind the firewall.

Note: If the endpoint you are creating a Secure Connector for requires additional libraries, use the Management Console to install the libraries before you deploy any project configurations that use the Secure Connector.

### Procedure

---

1. From the Navigation pane of an environment tab, select System > Secure Connector.
2. Click New Secure Connector. The Create Secure Connector dialog box is displayed.
3. Provide a name for the new Secure Connector.
4. Provide a brief description of the Secure Connector.
5. Click Save. The Secure Connector is displayed in the Secure Connector page.

**Parent topic:** [Using Secure Connectors](#)

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## Downloading Secure Connector Configuration Files

---

How to download Secure Connector configuration files.

### About this task

---

When you download a configuration file, the configuration file is saved to your default download directory. You can choose to save configuration files to different locations. Regardless of the number of configuration files you download, you can only use one configuration file during the Secure Connector installation process.

Once you select a configuration file to set up a Secure Connector, that configuration file will be used to configure any subsequent Secure Connector. It is not recommended to configure multiple Secure Connectors using the same configuration file. Instead, use a new configuration file or modify the existing configuration file. The Gateway, Listen to Port, and Transmit to Port parameters should have unique values for each Secure Connector.

The Secure Connector configuration file provides the Secure Connector installer with values for the following parameters:

- **Secure Connector Name** - Specify the name of the Secure Connector you created.
- **Tenant ID** - Specify the hexadecimal UUID for the tenant. You can retrieve this information by logging in to the cloud and selecting Setup > Support Information. The Support Information page is displayed. Copy the Identifier column value for the tenant. You can copy the value by selecting the cell value, right-clicking, and selecting copy from the menu.
- **Environment ID** - Specify the hexadecimal UUID for the environment. You can retrieve this information by logging in to the cloud and selecting Setup > Support Information. The Support Information page is displayed. Copy the Identifier column value for the environment where you want the Secure Connector installed. You can copy the value by selecting the cell value, right-clicking, and selecting copy from the menu.
- **Cloud Gateway** - Specify the gateway name.
- **Listen on Port** - Only modify this parameter if another service is using the port specified or you want to run multiple Secure Connectors on the box.
- **Transmit on Port** - Only modify this parameter if another service is using the port specified or you want to run multiple Secure Connectors on the box.
- **Secure Connector Auth Key** - Specify the Auth key from the Secure Connector you created in the cloud.
- **Secure Connector Private Key** - Specify the Auth private key, which you downloaded while creating the Secure Connector in the cloud.

## Procedure

---

1. Log into the Cloud Management Console as the tenant administrator.
2. From the Navigation pane of an environment tab, select System > Secure Connector.
3. In the Secure Connector window, click the Secure Connector that will communicate with an endpoint behind the firewall. The Edit Secure Connector dialog box is displayed.
4. Click Download Secure Connector Configuration and click Download now. The Opening Secure Connector Configuration dialog box is displayed.
5. Choose Save File and click OK. The configuration file is saved to the default download directory of the current user.

**Parent topic:** [Using Secure Connectors](#)

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## Installing Secure Connectors

---

Provides the procedures to download the Secure Connector installer and install the Secure Connector.

### Before you begin

---

For Windows installations, verify that you do not have an existing version of the Secure Connector installed. If you have an earlier version installed, you can upgrade it to the latest version using the Upgrade option. For more information about upgrading Secure Connectors, see [Upgrading Secure Connectors](#).

For Linux installations, while it is not required, it is good practice to uninstall previous Secure Connector installations.

For Linux machines, install a desktop environment, such as GNOME or KDE, to provide a graphical interface.

### About this task

---

After you create a Secure Connector in the cloud, you must configure a machine behind the firewall to facilitate communication between the Secure Connector and a specific endpoint behind the firewall. Use the Secure Connector installer to configure the machine behind the firewall.

Note: The machine on which you choose to run the installer must have access to the endpoint. You do not have to run the installer on the same machine as the endpoint.

**To download the Secure Connector installer:**

1. Log on to the Cloud Management Console as the tenant administrator. The Home page is displayed.
2. Click one of the environment tabs, that is, Development, Staging, and Production.
3. From the Navigation pane of the selected environment tab, click System > Secure Connector.
4. In the Secure Connector window, if you have already created a Secure Connector, click the Secure Connector that will communicate with the endpoint behind the firewall. The Edit Secure Connector dialog box is displayed.  
Note: If there are no Secure Connectors available in the Secure Connector window, create a new Secure Connector. For more information about creating a Secure Connector, see [Creating a Secure Connector](#).
5. Click Download Installer and choose the operating system of the machine to which the installer is downloaded: Windows or Linux.
6. Click Save File. The file is saved to the default download directory.

**To install the Secure Connector:**

1. Launch the Secure Connector installer you downloaded.
  - o windows-secure-connector-installer.exe (for 32-bit Windows machine)
  - o windows-secure-connector-installer\_64 (for 64-bit Windows machine)
  - o linux-secure-connector-installer.sh (for 32-bit Linux machine)
  - o linux-secure-connector-installer\_64.sh (for 64-bit Linux machine)

The Secure Connector Installer Wizard is displayed.

2. Select the Install option.
3. Click Next then read and accept the licensing agreement.
4. Click Next and choose an installation directory.
5. Click Next. A message window states the location where the target directory will be created.  
Note: If an install directory exists, a warning message displays and you must confirm that you want to install and overwrite existing files.
6. Click OK.
7. Set up shortcut options to start, stop, and edit a Secure Connector.
  - a. Select one or both of the following options:
    - Create shortcuts in the Start menu.
    - Create additional shortcuts on the desktop.
  - b. Select a program group from which you will access the shortcuts.
  - c. Choose to create shortcuts for the current user or all users.
8. Click Next. The installation progress is displayed.
9. Select a Secure Connector configuration file. If you have not already downloaded a Secure Connector configuration file, download one now. For more information about how to download Secure Connector configuration files, see [Downloading Secure Connector Configuration Files](#).
10. Click Next.
11. For Windows installation, choose to install and run the Secure Connector as a Windows Service. If you choose to install the Secure Connector as a Windows Service, you can control the Secure Connector using the Windows Services control panel (recommended). If you choose not to install and run the Secure Connector as a Windows Service, then the Secure Connector is installed as a Windows application. To run the Secure Connector as a Windows Service, you must specify the following service account information:
  - o Service Start Mode
  - o Service Account Domain
  - o Service Account User
  - o Service Account Password
12. Click Next. The installation is complete.
13. Click Done.

Note: If your endpoint, for example, SAP, requires additional libraries, you must install the additional libraries before you start the Secure Connector. For more information about installing additional libraries, see [Installing Vendor Supplied Libraries for Secure Connectors](#).

**Parent topic:** [Using Secure Connectors](#)

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## Adding or importing certificates to the Secure Connector TrustStore/KeyStore

---

For Cast Iron connector activities, such as HTTP, FTP, Email, or Web Services (or any other connector) that need to establish connection with the SSL enabled server (HTTPS/FTPS), you must import the corresponding certificates into the TrustStore or KeyStore of the Secure Connector.

### Procedure

1. Use the Java keytool utility to import the required certificates to TrustStore(cacerts) or KeyStore(cert) in the path mentioned:  
`<secure_connector_install_directory>\etc\security`
2. Restart Secure Connector for the changes to take effect.

**Parent topic:** [Using Secure Connectors](#)

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## Installing Vendor Supplied Libraries for Secure Connectors

---

Certain endpoints require additional libraries to be installed before the Secure Connector can communicate with them. This section provides information about using the Cloud Management Console to install these vendor supplied libraries. For a complete list of connectors that require vendor supplied libraries, open the Update Connector Libraries page in the Cloud Management Console.

### About this task

If your integration project uses a connector that requires additional libraries, you must install the additional libraries before you deploy the project configuration. Deploying the project configuration before installing the additional libraries generates runtime errors. For a complete list of connectors that require vendor supplied libraries, open the Update Connector Libraries page. See the following procedure.

If you have a multi-environment tenant, you must install the 3rd party libraries in each environment where you deploy a project configuration with a connector that requires the additional libraries.

For example, you have a tenant with three environments: Development, Staging, and Production. You publish a project configuration for an SAP endpoint in the Development and Production environments. Before you can deploy the project configuration, you must install additional SAP libraries on both the Development and Production environments. For more information about installing SAP libraries, see [Downloading and installing the SAP Jar Files and DLLs](#).

### Procedure

1. Click an environment tab.
2. Select System > Connector Libraries to open the Update Connector Libraries page.
3. In the Connector column, select the connector for which you want to install additional files.

Any files that have already been installed display in the Installed Files column.

4. Click the (+) icon and select the library file or files to upload. In the cloud, .jar and .dll are valid library files types. The files you select display in the Files to Add column.
5. Click Update.

The files that display in the Files to Add column are not committed until you click Update. If you click Reset before you click Update, the Cloud Management Console does not add the files you uploaded. If the Cloud Management Console times out before you click Update and commit the added files, repeat the last two steps.

6. In the same environment tab, select: System > Secure Connectors.
7. Click Download Libraries and save the libraries.zip file to your workstation.
8. Unzip the libraries.zip file and find a \*.tp-1.0.0.jar for each connector module.
9. Use the .jar files in the libraries.zip to replace the files in the Secure Connector install directory: lib/plugins.
10. Copy all the remaining .zip files to following Secure Connector install directory: lib/thirdparty
11. Restart the Secure Connector by running one of the following files from a command line:
  - o For Windows: runclient osgi.bat
  - o For Linux: runclient osgi.sh

**Parent topic:** [Using Secure Connectors](#)

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## Downloading and installing the SAP Jar Files and DLLs

---

To connect to an SAP system from studio, you must install SAP DLLs and jar files onto your Windows development machine. You must have the SAP login credentials to enter the SAP Support Portal and download the files.

### About this task

---

To download and install the SAP jar files and DLLs:

1. Contact SAP Technical Support to obtain the zip files for the following SAP Components:
  - o **SAP JCo Release 3.0.x - based on the platform on which studio is running.**  
Note: Latest version of JCo jar available: 3.0.14, IDoc version 3.0.12.
2. Unzip the SAP JCo zip file:
  - o Double-click the sapjidoc30P\_x-1000xxxx.zip file.
  - o Use the decompression tool to extract the contents of the compressed file to a temporary directory. This zip file contains another zip file sapjco3- NTintel-3.0.x.zip. Extract this zip also to a temporary directory, for example: C:\temp\sapjco3-NTintel-3.0.x. This directory contains the required libraries sapjco3.jar and sapjco3.dll.
3. Unzip the SAP IDoc JCo zip file:
  - o Double-click the sapjidoc30P\_x-1000xxxx.zip file.
  - o Use the decompression tool to extract the contents of the compressed file to a temporary directory, for example, C:\temp\sapjidoc30P\_x-1000xxxx. This directory contains the required library sapidoc3.jar.

### Procedure

---

1. Open studio, select Tools > Install Module Providers.
2. When the Add Providers dialog box is displayed, click the plus (+) button present beneath SAP Connector.

A text entry field and a Browse button is displayed.
3. Click Browse, and use the browse dialog box to locate and select the sapjco3.jar file.
4. Click Open to import the jar file contents.
5. Click the next available plus (+) button to add the sapidoc3.jar and sapjco3.dll files.

- When the jar file is listed in the Add Providers dialog box, click OK.

## Results

---

A prompt is displayed to restart studio and activate the changes.

## What to do next

---

You can now create SAP endpoints and orchestrations.

**Parent topic:** [Using Secure Connectors](#)

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## Uninstalling Secure Connectors (Windows)

---

This topic provides information about uninstalling a Secure Connector from a Windows machine.

### About this task

---

The following procedure allows you to uninstall a Secure Connector and all its configuration settings.

### Procedure

---

- Verify that another program, such as your browser or command shell, does not have any of the Secure Connector directories open.
- From the Windows Start button, select All Programs > IBM > Cast Iron Secure Connector <connector\_name> > Stop Secure Connector.
- From the Windows Start button, select All Programs > IBM > Cast Iron Secure Connector <connector\_name> > Uninstall Secure Connector. The Uninstaller window is displayed.
- Select Force the deletion of C:\Program Files\IBM\Secure\_Connector \_<connector\_name>.
- Click Uninstall.
- When the status bar displays [Finished], you can close the Uninstaller window.

**Parent topic:** [Using Secure Connectors](#)

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## Uninstalling Secure Connectors (Linux)

---

This topic provides information about uninstalling a Secure Connector from a Linux machine.

### Before you begin

---

You must have root level permissions to uninstall the Secure Connector from a Linux machine.

## About this task

---

You can uninstall the Secure Connector by using a graphical interface, issuing a command line command, or running the Java uninstall.jar file. Choose one of the following options to uninstall a Secure Connector and all its configuration settings from a Linux machine.

**Uninstalling the Secure Connector using a graphical interface:** You must have a desktop environment, such as GNOME or KDE, to successfully uninstall the Secure Connector using this procedure.

1. Verify that another program, such as your browser or command shell, does not have any of the Secure Connector directories open.
2. From the application directory, select IBM > Cast Iron Secure Connector <connector\_name> > Stop Secure Connector.
3. From the application directory, select IBM > Cast Iron Secure Connector <connector\_name> > Uninstall Secure Connector.

**Uninstalling the Secure Connector from the command prompt:**

1. Verify that another program, such as your browser or command shell, does not have any of the Secure Connector directories open.
2. From the command prompt, issue the ./Uninstaller/uninstall.sh command.

**Uninstalling the Secure Connector with .jar file.** You must have Java® version 1.6 or higher installed to successfully uninstall the Secure Connector using this procedure.

1. Verify that another program, such as your browser or command shell, does not have any of the Secure Connector directories open.
2. From the command prompt, enter the runclient osgi.sh stop command.
3. In the directory where you installed the Secure Connector, navigate to the Uninstaller sub-directory to find the uninstaller.jar file: "\${JAVA}" -jar "\${INSTALL\_DIR}/Uninstaller/uninstaller.jar" where {JAVA} is the Java executable and {INSTALL\_DIR} is the Secure Connector name.

A dialog box is displayed.

4. Select the Force the Deletion option.
5. Click Uninstall.
6. Click Quit.

## Results

---

The Secure Connector is uninstalled. Configuration settings are retained in the home directory.

**Parent topic:** [Using Secure Connectors](#)

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## Starting and Stopping Secure Connectors

---

Starting and Stopping Secure Connectors topics provide information about starting and stopping Secure Connectors on Windows and Linux machines. For Windows machines, options you chose during installation affect how you can start and stop Secure Connectors. If you installed the Secure Connector as an automatic Windows Service, as recommended, then you can use the Windows Services control panel to stop and start the Secure Connector. If you installed the Secure Connector as a Windows application, then you can start and stop the Secure Connector using Windows Start menu shortcuts or desktop shortcuts. For Linux machines, you can start and stop Secure Connectors by using a graphical interface or by running commands from the command line.

- [Starting and Stopping Secure Connectors on Windows \(Installed as a Windows Service\)](#)  
This topic provides information about starting and stopping Secure Connectors on Windows machines, where you have a Secure Connector installed as a Windows Service.
- [Enabling Interactive Mode for Windows Services](#)  
When the Secure Connector is installed as a Windows Service, enable the interactive mode for the service to view system tray icons and command window.
- [Starting and Stopping Secure Connectors on Windows \(Installed as a Windows Application\)](#)  
This topic provides information about starting and stopping Secure Connectors on Windows machines, where you have a Secure Connector installed as a Windows application.
- [Starting and Stopping Secure Connectors on Linux](#)  
This topic provides information about starting and stopping Secure Connectors on Linux machines.

**Parent topic:** [Using Secure Connectors](#)

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## Starting and Stopping Secure Connectors on Windows (Installed as a Windows Service)

---

This topic provides information about starting and stopping Secure Connectors on Windows machines, where you have a Secure Connector installed as a Windows Service.

### About this task

---

If you installed the Secure Connector as an automatic Windows Service, as recommended, use the Windows Services control panel to stop or restart the Secure Connector.

By default, when a Secure Connector is installed as a Windows Service, the Secure Connector is not configured to interact with the Windows Desktop. However, if the Secure Connector service was installed under a local system account, you can enable an interactive mode that presents system tray icons and a command window when the Secure Connector service is running.

For steps to enable the interactive mode for a Windows service, see [Enabling Interactive Mode for Windows Services](#).

Note: If you use the **Start Secure Connector** Start menu shortcut or desktop shortcut to start a Secure Connector, the Secure Connector starts as a normal application rather than as a service. You must use the Windows Services control panel to start Secure Connectors as a service. You can use either the **Stop Secure Connector** Start menu shortcut or desktop shortcut to stop a Secure Connector.

#### **Starting and stopping Secure Connectors, using the Windows Services control panel:**

### Procedure

---

1. Open the Windows Services window : Start > Control Panel > Administrative Tools > Services.
2. Scroll down the list of services to locate the IBM® Secure Connector service.
3. Right-click on the IBM Secure Connector service and select the appropriate command: Start, Stop, Pause, Resume, or Restart.

**Parent topic:** [Starting and Stopping Secure Connectors](#)

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## Enabling Interactive Mode for Windows Services

---

When the Secure Connector is installed as a Windows Service, enable the interactive mode for the service to view system tray icons and command window.

### About this task

---

By default, when a Secure Connector is installed as a Windows Service, the Secure Connector is not configured to interact with the Windows Desktop. However, if the Secure Connector service was installed under a local system account, you can enable an interactive mode that presents system tray icons and a command window when the Secure Connector service is running.

### Procedure

---

1. Open the Services control panel. For example: Start > Control Panel > Administrative Tools > Services.
2. Select the Cast Iron Secure Connector service.
3. Right-click the service name, and select Properties. The Service Properties window is displayed.
4. Select the Log On tab.
5. Select Local System account and then select Allow service to interact with desktop.
6. Click OK.
7. Click Restart.

### Results

---

When the Cast Iron Secure Connector service is restarted, system tray icons and a command window is displayed.

Note: You can minimize the command window. However, if you close the command window, the Cast Iron Secure Connector service will be stopped and terminated. Closing the command window is the equivalent of stopping the Secure Connector service from the Windows Services control panel.

**Parent topic:** [Starting and Stopping Secure Connectors](#)

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## Starting and Stopping Secure Connectors on Windows (Installed as a Windows Application)

---

This topic provides information about starting and stopping Secure Connectors on Windows machines, where you have a Secure Connector installed as a Windows application.

### About this task

---

When the Secure Connector is installed on a Windows machine as a Windows application, rather than a Windows Service, you can start and stop the Secure Connector using Windows Start menu shortcuts or desktop shortcuts.

### Procedure

---

1. Start the Secure Connector from either the Windows Start menu shortcut or desktop shortcut.
  - o From the Windows Start button, select All Programs > IBM > Cast Iron Secure Connector <connector\_name> > Start Secure Connector.

- o From the Windows desktop, click the Start Secure Connector shortcut to start the Secure Connector.
- 2. Stop the Secure Connector from either the Windows Start menu shortcut or desktop shortcut.
  - o From the Windows Start button, select All Programs > IBM > Cast Iron Secure Connector <connector\_name> > Stop Secure Connector.
  - o From the Windows desktop, click the Stop Secure Connector shortcut to stop the Secure Connector.

**Parent topic:** [Starting and Stopping Secure Connectors](#)

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## Starting and Stopping Secure Connectors on Linux

---

This topic provides information about starting and stopping Secure Connectors on Linux machines.

### About this task

---

If you have a desktop environment, such as GNOME or KDE, you can start and stop the Secure Connector using menu shortcuts or desktop shortcuts. You can also start and stop the Secure Connector using the command line.

### Procedure

---

1. Start the Secure Connector from either the menu shortcut , desktop shortcut or command line. Choose one of the following options:
  - o Select <application> > IBMÂ® > Cast IronÂ® Secure Connector <connector\_name> > Start Secure Connector .
  - o From the desktop, click the Start Secure Connector shortcut to start the Secure Connector.
  - o From the command prompt, enter `runclient osgi.sh start` .
2. Stop the Secure Connector from either the menu shortcut, desktop shortcut, or command line. Choose one of the following options:
  - o Select <application> > IBM > Cast Iron Secure Connector <connector\_name> > Stop Secure Connector .
  - o From the desktop, click the Stop Secure Connector shortcut to stop the Secure Connector.
  - o From the command prompt, enter `runclient osgi.sh stop` .

**Parent topic:** [Starting and Stopping Secure Connectors](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Secure\\_Connector/starting\\_stopping\\_secure\\_connectors\\_linux.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Secure_Connector/starting_stopping_secure_connectors_linux.html)

## Upgrading Secure Connectors

---

This topic provides information about upgrading Secure Connectors.

### Procedure

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1. Create a new Secure Connector.

2. Download the latest version of the Secure Connector installer, based on your operating system. For example, Windows or Linux.
3. On a Windows or Linux machine, launch the Secure Connector installer. The Cast Iron® Secure Connector wizard guides you through the upgrade process.  
Note: If you already have a Secure Connector installation that is higher than or same as the latest version, a warning message states that you have an existing installation and alternatively you can upgrade the existing installation.  
Note: You must stop the Secure Connector (if already started) before upgrading.  
Note: Before you proceed with the Secure Connector upgrade process, ensure that you have:
  - o Stopped the Secure Connector
  - o Taken a manual backup of the certificates (if any) located at <secure\_connector\_install\_path>/etc/security or jre/lib. You may want to replace/add your certificates after upgrade.
4. Click the Upgrade option. The Select the installed path list box is displayed.
5. Select the Secure Connector installed path, if it is displayed in the list box. Else, click Browse button to select the installed path.
6. Click Next, then read and accept the licensing agreement.
7. Click Next. The installation progress is displayed. A message is displayed stating that the installation has been completed successfully. The path to the installer program is also displayed.
8. Click Done.
9. Start the Secure Connector.

**Parent topic:** [Using Secure Connectors](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Secure\\_Connector/upgradingsecureconnector\\_s.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Secure_Connector/upgradingsecureconnector_s.html)

## Updating Secure Connector Configuration

---

This topic provides information about updating Secure Connector configuration.

### Procedure

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1. Download the new Secure Connector configuration file. For more information, see [Downloading Secure Connector Configuration Files](#).
2. Launch the Secure Connector Configuration wizard. To launch the wizard:
  - a. Windows machine: Go to Start > All Programs > IBM > Cast Iron Secure Connector <connector\_name> > Secure Connector Configuration.
  - b. Linux machine: Select <application> > IBM > Cast Iron Secure Connector <connector\_name> > Secure Connector Configuration.
3. The Secure Connector configuration wizard guides you through the upgrade process.
4. Click Next. The current Secure Connector Configurations are displayed if the Secure Connector is already configured. If not, browse for the newly downloaded configuration file and click Next.
5. Modify the Secure Connector configuration by completing one of the follow steps:
  - a. Modify the Cloud Gateway, Listen on Port, and Transmit on Port parameters and click Next. Or
  - b. Click the Previous button and select a new Secure Connector file.
    - i. Click Next and verify the configuration settings.
    - ii. Click Next.
6. Specify settings for a proxy server: Proxy Server, Proxy Port, Login ID, Login Password, and Retype Password. These parameters are only required if your network requires that the Secure Connector uses a proxy to connect to the Cast Iron® Cloud Gateway.
7. The Create Vendor Supplied Libraries screen is displayed.
8. Click Add and select the library files to upload. In the appliance, the valid files are .jar, .dll, and .so file types. The files that you select are displayed in the Files to Add column.
9. Click Update.

The files that display in the Files to Add column are not committed until you click Update.

10. Click Next. A dialog box is displayed to confirm the changes made, if you have not clicked the Update button. Click Yes to update changes and proceed further. If you click No to go to the next screen without any changes. Click the Cancel button to stay on the same screen.
11. When you click Yes to proceed further, the Vendor JAR created/updated successfully message is displayed.
12. Click OK. A message saying that the installation has completed successfully is displayed.
13. Restart the Secure Connector.

**Parent topic:** [Using Secure Connectors](#)

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## Troubleshooting Secure Connectors

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This topic provides potential solutions for issues you have with the Secure Connector.

Secure Connector log files are available for your review. The Log directory is created after the initial start of the Secure Connector. The Log directory is located in the Secure Connector install directory. For example: C:\Program Files\IBM\Secure\_Connector\_1.development\logs

- **A port contention error occurs.** A port contention error can occur when two Secure Connectors are configured to use the same port and gateway. To resolve the issue, provide unique values for the Gateway, Listen on Port, and Transmit on Port parameters in each Secure Connector configuration file.
- **Unable to run .jar file to uninstall a Secure Connector.** Verify that the Javaâ„¢ path is specified correctly and that you have Java version 1.6x or higher installed on the machine.

**Parent topic:** [Using Secure Connectors](#)

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## Security

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Security topics provide information about generating and managing certificates.

- [About Certificates](#)
- [Editing Security Settings](#)
- [Exporting Certificates](#)
- [Generating Certificate Signing Requests](#)
- [Generating Self-Signed Certificates](#)
- [Importing Certificates](#)
- [Renaming Certificate Alias](#)
- [Uploading Certificates](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Security/toc\\_security.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Security/toc_security.html)

## About Certificates

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Certificates enable secure communication between the Integration Appliance and endpoints located in your intranet and extranet. Use the Management Console to manage certificates.

From the Certificates page, you can generate, import, and update security certificates and security settings.

The following tables provides definitions for certificate terminology.

Certificate Terminology	Definition
Alias	A string of alphanumeric characters you assign to a KeyStore or TrustStore entry to provide a more user friendly name. Within a KeyStore or TrustStore you can use an alias to refer to the keys and certificates. Note: Aliases are not case sensitive. For example, MyCert and mycert refer to the same entry.
Certificate	A signed credential which identifies an endpoint or organization.
Key Pair	A public key and associated private key.
KeyStore	A Java data store that houses private keys and certificates used by a Java SSL endpoint. For example, a local Java endpoint supplies a certificate from its KeyStore as a credential to identify itself to a remote SSL endpoint.
PKI	Public Key Infrastructure is a system for managing encryption keys and identity information. The purpose of the system is to provide standards based system for protecting/securing communications over the internet.
Private Key	A key known only to a single endpoint used to encrypt and/or sign data.
Public Key	A key associated with a private key that can be distributed to anyone.
SSL	Secure Sockets Layer enables secure web communications and permits endpoints to optionally authenticate each other.
TrustStore	A Java data store that houses certificate authority signed certificates. For example, a local Java endpoint utilizes a TrustStore to authenticate the identity (certificate) provided to it by a remote SSL endpoint.

**Parent topic:** [Security](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Security/aboutCertificates.html>

## Editing Security Settings

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### Procedure

1. In the Key Store section, click Generate. The Generate Self-Signing Certificate dialog box displays.
2. In the Settings section, click Edit. The Edit Settings dialog box is displayed.
3. Select the certificate alias for which you want to edit settings.

4. Select the cipher strength:

- Standard
- Strong

5. Click Save.

**Parent topic:** [Security](#)

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## Exporting Certificates

---

### Procedure

1. In the Key Store section, click Generate. The Generate Self-Signing Certificate dialog box displays.
2. In the Key Store section, click on an alias. The Certificate Details window is displayed.
3. Click Export. The Export Certificate dialog box is displayed.
4. Select an exporting format.
5. Provide a password.
6. Click Export.

**Parent topic:** [Security](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Security/exportingCertificates.html>

## Generating Certificate Signing Requests

---

### Procedure

1. In the Key Store section, click Generate. The Generate Self-Signing Certificate dialog box displays.
2. In the Key Store section, click on an alias. The Certificate Details window is displayed.
3. Click Generate CSR. The Certificate Content window is displayed.
4. Click Copy. The entire contents of the window is copied.
5. Click Download and enter a location for the download.
6. Click Save. The certificate contents are downloaded to the specified location.

**Parent topic:** [Security](#)

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## Generating Self-Signed Certificates

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### Procedure

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1. In the Key Store section, click Generate. The Generate Self-Signing Certificate dialog box displays.
2. Specify values for the following parameters:
  - o Alias - The name used to identify the key pair.
  - o Common Name (CN)
  - o Organization (O)
  - o Organization Unit (OU)
  - o Country (C) - Select a country from the list
  - o State (ST)
  - o Locale (L)
  - o Email (EMAILADDRESS)
  - o OID -
  - o Key Algorithm - Choose an algorithm type from the list.
  - o Key Length - Choose a value from the list.
  - o Valid For: - Specify the length of time this certificate is valid for in years and days.
3. Click Generate.

### Results

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The self-signed certificate displays in the Key Store table.

**Parent topic:** [Security](#)

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## Importing Certificates

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### About this task

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You can import a certificate or certificate chain into the IBM® WebSphere® Cast Iron KeyStore. You can also import trusted Certificate Authority certificates (CA Certs) to the TrustStore.

### Procedure

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1. In the Key Store section, click Generate. The Generate Self-Signing Certificate dialog box displays.
2. In the Key Store or Trust Store section, click Import. The Import Certificates dialog box is displayed.
3. Specify an alias name. This name is used to identify the imported certificate or certificate chain.
4. Optional: Provide a key password.

The password protects the private key of the key pair associated with the alias. If you do not specify a password, the password defaults to the password protecting the KeyStore.

5. If you are importing a certificate from a trusted site, select the Trusted option.

If you select the Trusted option, the certificate is imported without checking for an existing chain of trust. If you do not select the Trusted option, the KeyStore and TrustStore is checked to ensure a chain of trust exists for the certificate being imported.

6. Choose to import the content from a file or from content in the clipboard that contains the certificate or certificate chain to be imported.

Supported formats include: CER/PEM (RFC 1421), DER, PKCS7, and PKCS12.

7. Click Import.

## Results

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The certificate is displayed in the Certificates page.

**Parent topic:** [Security](#)

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## Renaming Certificate Alias

---

### Procedure

1. In the Key Store section, click Generate. The Generate Self-Signing Certificate dialog box displays.
2. In the Certificate page, select an Alias. The Certificate Details dialog box is displayed.
3. Click Rename.
4. In the Alias field, enter a new alias.
5. Click Apply.

## Results

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The updated alias is displayed on the Certificates page.

**Parent topic:** [Security](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Security/renamingCertificateAlias.html>

## Uploading Certificates

---

### Procedure

1. In the Key Store section, click Generate. The Generate Self-Signing Certificate dialog box displays.
2. In the Key Store section, select an alias. The Certificate Details window is displayed.
3. Click Upload. The Update Certificate dialog box is displayed.
4. If you are uploading a certificate to a trusted site, select the Trusted option.
5. Choose to upload the content from a file or from content in the clipboard.
6. Click Import.

**Parent topic:** [Security](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Security/uploadingCertificates.html>

## Working with Logs

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Working with Logs topics provide information about specifying system settings, and viewing system logs.

- [Specify System Log Settings](#)
- [Viewing System Logs](#)
- [Viewing Job Logs](#)
- [Customizing columns in System log and Job log](#)

You can customize the columns displayed in the System log and Job log pages, respectively.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Working\\_with\\_Logs/toc\\_working\\_with\\_logs.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Working_with_Logs/toc_working_with_logs.html)

## Specify System Log Settings

---

### About this task

You can specify the level of details that appears in the system logs. The log level you specify affects alerts for notification policies. Alerts are only sent for events that meet or exceed the log level you specify.

Note: If you do not receive notifications for events, it might be that you do not have the system log level set to produce entries that would trigger a notification.

### Procedure

1. In the Navigation pane, select Logs > System Log. The System Log page is displayed.
2. Click Settings. The System Log Settings dialog box is displayed.
3. From the list, select a log level for each system.
4. Click Save.

### Results

A confirmation message displays. The system log logs all events that occur at the level you specified or higher for the specific system. For example, if you chose the Error level for Deployment, all events that were Error or Critical level in the Deployment system are logged.

**Parent topic:** [Working with Logs](#)

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## Viewing System Logs

### About this task

You can view system logs from the Management Console and use the system log filters to sort through system log entries.

When you upgrade, the Management Console does not persist system logs. To retain system log information, export system logs before you upgrade.

Note: The Management Console displays a maximum of 99,999 system log entries. When the number of system log entries exceeds 99,999, the oldest log entry is deleted from the system log.

### Procedure

1. From the navigation pane, select Logs > System Log. The System Log page is displayed.
2. Choose the filter values from the lists at the top of the System Log page.

You can filter the log entries according to the level of severity for the event, the environment system that generated the log event, dates, and resolution state. The filters use AND logic.

**Parent topic:** [Working with Logs](#)

## System Log Content

The system log provides the following information:

System Log Content	Description
Level	Identifies the level of severity of the log event: <ul style="list-style-type: none"><li>• Critical</li><li>• Error</li><li>• Warning</li><li>• Info</li></ul>
System	Identifies the system where the log event occurred.
Message	Text messages that provides details about the log event.
Job	When available displays Job ID information for log events that occur in the Orchestration system.
When	Records the time when the log event occurred.
Resolved On	Provides a time stamp of when you resolved a log event.
Resolved By	Identifies which user resolved a log event.
Resolved	Select this checkbox to acknowledge that you have resolved a log event. When a user resolves a log event, a time stamp documents the date and time the issue was resolved. Information about the user who resolved the log event is tracked in the Resolved By column. You can resolve all the system log issues, by clicking Resolve All. Clear the checkbox next to any log events that are not resolved and the Resolved On and Resolved By values are cleared.

[Feedback | Notices](#)

## Viewing Job Logs

---

### About this task

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You can view job logs from the Cloud Management Console and use the job log filters to sort through job log entries.

### Procedure

---

1. From the navigation pane, select Logs > Job Log. The Job Log page is displayed.
2. Choose the filter values from the lists at the top of the Job Log page.

**Parent topic:** [Working with Logs](#)

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## Customizing columns in System log and Job log

---

You can customize the columns displayed in the System log and Job log pages, respectively.

### About this task

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You can customize the columns to be displayed in the System Log and Job Log pages by editing the column display settings. To customize the log page columns, complete the following steps:

### Procedure

---

1. From the navigation pane, select Logs > System Log or Job Log. The System Log page or the Job Log page is displayed.
2. Click Edit Columns. The Log Columns Settings window is displayed.
3. Select the columns that need to be displayed on the System Log or Job Log page. By default, all the columns are selected in the Log Columns Settings window.
4. Click Save. Only those columns selected by you will be displayed in the System Log or Job Log page.

**Parent topic:** [Working with Logs](#)

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## About the Web Management Console

---

About the Web Management Console (WMC) topics provide general information about the WMC.

- [About Management Console Settings](#)

From the Settings link, you can manage various user profile, session, and display preferences. The Web Management Console supports only the English language. The Settings link is in the upper right corner of the Management Console.

- [Contacting Technical Support](#)

Submit technical support issues through the IBM® Support page.

- [Navigating the Management Console](#)

The Management Console is a web-based tool that allows you to manage and monitor the various systems and resources of your integration environment. This environment can be a physical Integration Appliance or an environment in the WebSphere® Cast Iron® Cloud.

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## About Management Console Settings

---

From the Settings link, you can manage various user profile, session, and display preferences. The Web Management Console supports only the English language. The Settings link is in the upper right corner of the Management Console.

From the Settings dialog box, you can view and edit the following settings and preferences.

Table 1. User Profile Setting

User Profile Setting	Description
User Name	The name of the user currently logged in.
Display Name	The name that displays on the console and that displays in the logs.
Password	Password for the current user: <ul style="list-style-type: none"><li>• Minimum length is 8 characters</li><li>• Maximum length is 15 characters</li><li>• Must contain characters from 3 of the 4 following categories:<ol style="list-style-type: none"><li>1. upper-case</li><li>2. lower-case</li><li>3. numeric</li><li>4. punctuation (for example, !, \$, #, %)</li></ol></li><li>• Must not contain any 3 character substring of user name</li><li>• Must not contain any 3 character substring of prior password</li></ul>
Email	Current® user email address. Email notifications are sent to this email.
User Groups	User groups for which the user is a member.

## Login Policy

---

When the 5th consecutive login failure occurs for a single user, in any span of time, the user is prohibited from logging-in again for a delay interval of 15 seconds.

For each subsequent login failure, the delay interval doubles until the delay interval capacity is reached. The delay interval capacity is 1 hour. A successful login by the user resets the login failure count and the delay interval for the user.

Table 2. Session Settings

Session Settings	Description
------------------	-------------

Session Settings	Description
Inactivity Timeout	The amount of inactive time the console waits before logging off the current user. You can choose one of the following timeout intervals: <ul style="list-style-type: none"> <li>• 5 minutes</li> <li>• 15 minutes</li> <li>• 30 minutes</li> <li>• 60 minutes</li> <li>• Never</li> </ul>
Dashboard Refresh Interval	The amount of time the console waits before refreshing the view. You can choose one of the following refresh intervals: <ul style="list-style-type: none"> <li>• 15 seconds</li> <li>• 30 seconds</li> <li>• 60 seconds</li> <li>• Off</li> </ul>

Table 3. Display Settings

Display Settings	Description
Time Zone	Allows you to specify the time displayed on the console. You can specify one of the following display modes: <ul style="list-style-type: none"> <li>• Local Time (GMT-0800)</li> <li>• Remote Time (GMT)</li> <li>• GMT</li> </ul>
Page Size for Jobs Log	Allows you to specify the number of rows of the Jobs log to display on the console. You can choose to display 15, 25, 50, or 100 rows.
Page Size for System Log	Allows you to specify the number of rows of the System log to display on the console. You can choose to display 15, 25, 50, or 100 rows.
Maximum Age for Recent Jobs	Allows you to specify the age of the recent jobs that are displayed on the console. For example, if you choose 1 hour, any job that is older than an hour is not displayed. You can include jobs as old as: 1 hour, 2 hours, 4 hours, 8 hours, 1 day, 2 days, 5 days, or 1 week.
Maximum Age for Recent Configurations	Allows you to specify the age of the recent project configurations that are displayed on the console. For example, if you choose 1 day, any project configuration that is older than a day is not displayed. You can include project configurations as old as: 1 day, 2 days, 5 days, 1 week, 2 weeks, 3 weeks, or 4 weeks.

**Parent topic:** [About the Web Management Console](#)

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## Contacting Technical Support

Submit technical support issues through the IBM® Support page.

For more information, see <http://www.ibm.com/support/us/en/>.

**Parent topic:** [About the Web Management Console](#)

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## Navigating the Management Console

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The Management Console is a web-based tool that allows you to manage and monitor the various systems and resources of your integration environment. This environment can be a physical Integration Appliance or an environment in the WebSphere® Cast Iron® Cloud.

The navigation pane on the left of the Management Console displays a menu of pages that allow you view, configure, and take actions on various systems and resources.

If you have logged on to the Management Console as an administrator, you can view the reports of:

- **Publish details:** Displays the configurations published, by whom it was published, and the date and time when it was published.
- **Login History:** Displays the login history of the user or users that logged on to the appliance. The login history includes the name of the user, the log in time, and the log out time.

The back and forward buttons on browsers do not allow you to move through the Management Console pages in the order which you opened them. Use the back and forward arrows in the top right corner of the Management Console to move through the Management Console pages in the order you opened them.

The user that is currently logged in is also displayed in the upper right corner. Click Settings > User Profile to open the User Profile window.

**Parent topic:** [About the Web Management Console](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/About\\_the\\_WMC/navigatingManagementConsole.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/About_the_WMC/navigatingManagementConsole.html)

## Local Staging Database

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Local Staging Database topics provide information about using the local staging database in the Web Management Console.

- [About the Local Staging Database](#)
- [Starting the Local Staging Database](#)
- [Stopping the Local Staging Database](#)

 Last updated: Thursday, 2 June 2016  
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## About the Local Staging Database

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In Studio, you can build projects with Data Quality activities that sort and merge data from a source system to help you cleanse and quickly migrate the data to a target system. As the Data Quality activities in a project iteratively process data from a source system-- sorting "good" and "bad" data, the Integration Appliance can store the data in a Local Staging Database.

From the WMC, you can view the local database tables and lookup tables to make further changes, as needed, to the processed data. You must have the appropriate permissions to view tables and perform operations on the Local Staging Database.

Important: The Local Staging Database must be started before you can view the Database Viewer in the WMC.

## Database Viewer Panes

---

The Database Viewer is made up of three panes:

### Database Objects pane

Located on the left-hand side of the Database Viewer, this pane displays all tables in the Local Staging Database, including fields and rows.

### Query pane

Located in the upper-right side of the Database Viewer, this pane provides a workspace for you to validate and submit queries to the Local Staging Database. You can manage each query in a separate tab. You can perform the following operations on each tab:

- Validate Query
- Submit Query
- Clear Query
- Close Tab

### Summary pane

Located in the lower-right side of the Database Viewer, this pane contains two tabs: Results and History.

- **Results tab** - Provides a summary of the rows returned from the query.
- **History tab** - Provides a log of events that have occurred on the Local Staging Database. A time stamp marks each event logged. The log of events persists as long as the WMC is open. Once you close the WMC, the History tab is cleared.

**Parent topic:** [Local Staging Database](#)

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## Starting the Local Staging Database

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### About this task

---

From the WMC, you can start and stop the Local Staging Database. You must start the staging database to view or update data. By default, the staging database is in a stopped state. In the stopped state, you cannot view or update the staging database. When you stop the database, all sessions for all users also stop.

Only users with Administrator privileges, granted as being part of the built-in Administrator group, can start, stop, and perform operations on the Local Staging Database. Users with Publisher privileges can only view the database if the Local Staging Database has already been started by a user with Administrator privileges. If the Local Staging Database has not been started, users with Publisher privileges will not be able to view the database. Users that are part of the built-in Users group or with WMC login credentials created in an LDAP Server do not have access to the Local Staging Database.

## Procedure

---

1. From the navigation pane, select System > Staging DB. The Staging DB page is displayed.
2. Click Start Database.

**Parent topic:** [Local Staging Database](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Local\\_Staging\\_Database/startingLocalStagingDB.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Local_Staging_Database/startingLocalStagingDB.html)

## Stopping the Local Staging Database

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### About this task

---

From the WMC, you can start and stop the Local Staging Database. You must start the staging database to view or update data. By default, the staging database is in a stopped state. In the stopped state, you cannot view or update the staging database. When you stop the database, all sessions for all users also stops.

Only users with Administrator privileges, granted as being part of the built-in Administrator group, can start, stop, and perform operations on the Local Staging Database. Users with Publisher privileges can only view the database if the Local Staging Database has already been started by a user with Administrator privileges. If the Local Staging Database has not been started, users with Publisher privileges will not be able to view the database. Users that are part of the built-in Users group or with WMC login credentials created in an LDAP Server do not have access to the Local Staging Database.

## Procedure

---

1. From the Navigation pane, select System > Staging DB. The Staging DB is displayed.
2. Click Stop Database.

**Parent topic:** [Local Staging Database](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Local\\_Staging\\_Database/stoppingLocalStagingDB.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Local_Staging_Database/stoppingLocalStagingDB.html)

## Best Practices for Memory Management

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Outlines memory management best practices to maintain a healthy runtime environment and avoid out of memory errors.

An Integration Appliance sets aside a pool of memory to run orchestration jobs. Managing this pool of memory is key to maintaining a healthy runtime environment.

There is a direct relationship between the amount of memory used and garbage collection cycles. Garbage collection is a process that returns memory, held by completed jobs and variable data, back to a pool of memory used by all orchestration jobs. This garbage collection process ensures that the Integration Appliance has a constant supply of free memory that new orchestration jobs can use.

Garbage collection (GC) is a continual process that runs in the background with no effect on orchestration job performance. However, when memory reaches a critical threshold, a more in-depth process known as full garbage collection occurs. The full garbage collection process puts all the running jobs into a sleep state and returns unused memory back to the pool. Because all orchestration jobs stop during a full garbage collection, frequent full garbage collections can affect orchestration performance.

When the GC Activity value on the Resource Utilization Graph spikes at regular intervals, there is most likely a high demand on memory that the Integration Appliance is trying to manage by initiating more frequent full garbage collection cycles. However, high memory usage does not necessarily mean an increase in full garbage collection cycles. For example, a large volume of short running orchestrations results in a larger percentage of memory being used. But the garbage collection cycles, constantly running in the background, most likely return memory back to the pool of memory quickly enough that the overall memory usage is never high enough to trigger a full garbage collection. Full garbage collections stop all orchestrations, so frequent full garbage collections can affect orchestration performance.

Scenarios where high memory usage likely results in frequent full garbage collection cycles include a mix of orchestration types. For example, having multiple, non-persistent, long running orchestrations with numerous variables processing large objects. These types of orchestrations would consume and tie up large amounts of memory that could not quickly be returned to the memory pool.

Note: These types of orchestrations are not recommended by Cast Iron®.

The following table provides a list of best practices that will help you manage memory usage and maintain a healthy runtime environment.

Table 1. Best Practices for Memory Management

Best Practice Principles	Description
Reduce logging levels.	<p>More detailed logging requires more memory to process and store the data and also increases the I/O load on the Integration Appliance disk, which can slow performance. Detailed logging levels are recommended for debugging purposes only and not recommended for production environments, where high volumes of data are processed.</p> <p>The Integration Appliance generates system logs and orchestration job logs.</p> <p>Cast Iron recommends setting the System Log level to "Warning" for all components that are tracked in the system log:</p> <ul style="list-style-type: none"> <li>• Hardware</li> <li>• Resources</li> <li>• Network</li> <li>• Security</li> <li>• Orchestration</li> <li>• Deployment</li> </ul> <p>If the number of warnings generated by the various system components is high, memory usage might become an issue. Either resolve the problem that is causing the warnings to be generated or increase the system logging level to "Error". For more information about setting system log levels, see <a href="#">Specify System Log Settings</a>.</p> <p>Orchestration logging levels are specified for each orchestration in a project. Cast Iron recommends setting Logging Levels to "Error Values" for all orchestrations under all projects on the Integration Appliance. For more information about setting orchestration log levels, see <a href="#">Editing Orchestration Settings</a>.</p>
Verify persistence is enabled for all orchestrations.	<p>By default, persistence is enabled for an orchestration and variable data is written to disk instead of memory. Enabling persistence has the added benefit of point-in-time data recovery should a fault occur during runtime.</p> <p>If you disable persistence for an orchestration, data is stored in memory. While disabling persistence can improve performance, as the number of running jobs increases the likelihood of running out of memory also increases. Because of the high risk of running out of memory, proceed with extreme caution when you choose to disable persistence.</p> <p>Note: Turning off persistence reduces the number of orchestration jobs that the Integration Appliance can run simultaneously. The limit is set by the amount of memory available on the Integration Appliance.</p>

Best Practice Principles	Description
Use scheduling capabilities available in the Web Management Console (WMC) and Studio to stagger orchestration jobs.	<p>By scheduling memory intensive jobs to start at different times or to run during off-peak hours, you relieve some of the load on memory, reduce the number of full garbage collections, and potentially improve performance.</p> <p>In Studio, you can use the Schedule Job activity or configure polling intervals for activities in an orchestration to stagger orchestration jobs and maximize resource utilization. You can also create a schedule in the WMC, to control when the Integration Appliance should run an orchestration job. Measure the average execution time of a given orchestration job, so you can optimize job schedules.</p>
Minimize the number of variables used in an orchestration.	<p>The more variables you use in an orchestration, the more memory is required to store the data. This in turn could increase the number of garbage collection cycles and affect performance. Review your orchestrations to see if you can reduce the number of variables used.</p>
Reduce the number of simultaneously running jobs.	<p>In the WMC, you are able to specify the maximum number of simultaneously running jobs for an orchestration. As the number of concurrently running orchestrations increases, so does the percentage of memory usage increase. If you notice memory is getting overloaded, reduce the number of jobs running simultaneously.</p> <p>The effects of reducing the number of simultaneously running jobs is especially impactful for non-persistent, long running orchestrations jobs that contain a large number of variables.</p> <p>Note: These types of orchestrations are not recommended by Cast Iron.</p>
Do not exceed 75% load on memory.	<p>In the WMC Resource Utilization Graph, you can track the percentage of memory used. When the percentage of memory used is approximately 75% or less, the Integration Appliance has capacity to process more orchestrations. When the percentage of memory used exceeds approximately 75%, you will likely notice performance issues as the number of full garbage collections increase.</p>
Limit full garbage collection cycles.	<p>In the WMC Resource Utilization Graph, you can use the GC Activity value to track a percentage of full garbage collections. When this percentage exceeds 50%, you might notice a reduction in the throughput of your orchestrations jobs. Implement the best practices for memory management to reduce memory usage and thus reduce the likelihood of full garbage collection cycles occurring.</p>
Add additional Integration Appliances to your environment.	<p>After implementing the best practices principles, if memory usage continues to be high, it might be time to add another Integration Appliance to your environment.</p>

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#### Feedback | Notices

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## Managing Integration Appliances

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Managing Integration Appliances topics provide information about downloading 3rd party libraries, importing and exporting repositories, as well as describing and using commands on the Web Management Console.

- [About Connectors](#)
  - [System Summary](#)
  - [Downloading and installing SAP library files](#)
  - [Configuring Secure Network Communications \(SNC\) for SAP connector](#)
- In Cast Iron version 6.3.0.2 and later versions, you can connect to SAP through the SAP connector by using the SNC feature.
- [Executing Commands](#)
  - [Exporting A Repository](#)
  - [Importing A Repository](#)
  - [Installing Libraries from Other Vendors](#)
  - [Scheduling Downtime](#)
  - [Specifying Network Settings](#)
  - [Executing a System Command](#)

- [Upgrading a Dell Integration Appliance](#)

This section provides information on using the WMC to upload minor and patch releases to a Dell Integration Appliance. When you upgrade the appliance, you are able to access the latest features of the Cast Iron® operating system. This upgrade process only replaces or adds necessary files, it does not destroy any data.

- [Upgrading a DataPower Integration Appliance](#)

This section provides information on using the WMC to upload minor and patch releases to a DataPower Cast Iron XH40 Integration Appliance. When you upgrade the appliance, you are able to access the latest features of the Cast Iron operating system. The upgrade process only replaces or adds necessary files, it does not destroy any data.

- [Working with Network Routes](#)

You can add and delete network routes for the Integration Appliance.

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## About Connectors

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The Connectors page displays all the connectors that are installed on the Integration Appliance. From the Connectors page you can also see the version number of each installed connector and licensing status for each connector. The Integration Appliance can only process configuration projects that contain endpoints with valid connector licenses. To open the Connectors page, select System > Connectors from the navigation page.

Some connectors require you to install additional libraries, before you can deploy a configuration project. On the Connectors page, click the Update Libraries link to manage these additional connector libraries.

**Parent topic:** [Managing Integration Appliances](#)

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## System Summary

---

The System Summary page provides information about the Integration Appliance. To access the System Summary page, select System > Summary from the navigation pane.

System Information	Description
Model	Displays the Integration Appliance hardware model.
Version	Displays the version of WebSphere® Cast Iron® Operating System that is currently running on the Integration Appliance.
Serial Number	Displays the Integration Appliance serial number.

**Parent topic:** [Managing Integration Appliances](#)

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## Downloading and installing SAP library files

---

### Before you begin

You must have an SAP User ID and password to enter the SAP Support Portal to download the files.

### About this task

In order to connect to an SAP system, you must install SAP libraries onto your development environment.

Note:

If you have older versions of the `librfccm.so` and `libsapjcorfc.so` files in any system directories, you must remove these files. Appliance must use the `libsapjco3.so` file provided with SAP JCo Release 3.0.x. You must use 64 bit SAP JCo libraries for Cast Iron® version 7.0 and later versions; and 32 bit SAP JCo libraries for Cast Iron version 6.4 and earlier versions.

### Procedure

1. Contact SAP Technical Support to obtain the following zip files for the following SAP Components:
  - o SAP 32/64 bit JCo version 3.0.14 - Linux 32/64 bit version.
  - o SAP Javaâ„¢ IDoc Class Library 3.0.12.
2. Extract the contents of the package received from SAP Technical Support and copy it onto a local folder.
3. Log on to the Management Console and select System > Connectors. The Connectors page is displayed.
4. Click Update Libraries. The Update Connector Libraries window is displayed.
5. Select SAP in the Connector column.
6. Click the plus (+) button and repeat the following substeps until you have imported all the jar files you just downloaded.
  - a. Locate one of the jar files you just downloaded (`sapjco3.jar`, `sapidoc3.jar`, and `libsapjco3.so`).
  - b. Click Open to import the jar file. The file is displayed in the Files to Add column.
7. Click Update.

The files that display in the Files to Add column are not committed until you click Update. If you click Reset before you click Update, the Management Console does not add the files you uploaded. If the Management Console times out before you click Update and commit the added files, repeat the last two steps.

### Results

You can now run SAP projects.

**Parent topic:** [Managing Integration Appliances](#)

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# Configuring Secure Network Communications (SNC) for SAP connector

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In Cast Iron version 6.3.0.2 and later versions, you can connect to SAP through the SAP connector by using the SNC feature.

## Procedure

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1. Upload `libsapcrypto.so` to the same place where SAP JCo JARs are uploaded (for more information, see [Downloading and installing SAP library files](#)) in system library using WMC.
2. Run the shell commands to add the SAP crypto directory to the path variable of the system and to add the system credentials to the `.pse` file.  
Note: Shell commands can be run only by the IBM WebSphere Cast Iron L2 or L3 support engineers and share the `.pse` file with IBM Support if required.

**Parent topic:** [Managing Integration Appliances](#)

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## Executing Commands

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### About this task

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To run a system control command against the Integration Appliance:

## Procedure

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1. From the navigation pane, select System > Command. The System Commands page is displayed.
2. From the Choose Command drop-down list, select a command. You can view command details by clicking the drop-down arrow.
3. Click Go.

**Parent topic:** [Managing Integration Appliances](#)

## System Control Commands

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You can execute the following commands against a standalone Integration Appliance or an High Availability (HA) Pair. For more information about HA specific commands, see [Working with High Availability Pairs](#).

System Control Commands	Descriptions
Remove Job History	Removes all job history from the Integration Appliance.
Remove Projects & Configurations	Removes all projects, orchestrations, and project configurations from the Integration Appliance.
Remove All Jobs in Progress	Removes all data for currently running projects.
Download Postmortem	Generates and downloads a postmortem file to the location you specify.
Restart	Stops and restarts the Integration Appliance.
Reboot	Shuts down all services and then reboots the Integration Appliance.

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## Exporting A Repository

---

### About this task

Export the project repository to create a backup before upgrading an Integration Appliance. You can export all project configuration and user settings, which includes: network configurations, users and groups, licenses, job log parameters, log levels, notifications, downtime rules, and passwords, from the WMC to another location.

The Integration Appliance system logs are not exported when you export a repository. So if you import an earlier version of the repository, the system logs still contain events that occurred before the new repository was imported.

You can export a repository with the project configurations running. However, when you import this repository, the project configurations will all be in the undeployed state.

### Procedure

1. In the Navigation pane, select Repository > Import/Export. The Import/Export Repository dialog box is displayed.
2. Click Export. The Save As window displays.
3. Specify the location where you would like to save the exported repository.
4. Click Save. The WMC exports a copy of the repository as a .tar.gz file.

**Parent topic:** [Managing Integration Appliances](#)

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## Importing A Repository

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### About this task

When you import a repository, the WMC deletes some information held in the existing repository. Exactly which information is deleted depends on which option you select when you import the repository, as explained in this topic. However, the system log is not deleted. Therefore, you could potentially see system log entries from the previous repository. Once you have imported a repository, you cannot roll back to a previous repository. Therefore, it is recommended that you export the existing repository before importing another repository.

You must stop and undeploy all project configurations on the WMC, before you can import a repository. When the WMC successfully imports a repository, all the project configurations are in the undeployed state.

### Procedure

1. In the Navigation pane, select Repository > Configurations. The Project Configurations page is displayed.
2. From the Configurations Filter list, select All. All project configurations are displayed.
3. Stop and undeploy all project configurations.
4. In the Navigation pane, select Repository > Import/Export. The Import/Export Repository dialog box is displayed.

5. In the Repository File field, specify the path for the repository that you want to import.
6. Choose an import option:
  - o Project and User Settings  
Imports all the contents of the repository file you select. All projects are imported in the undeployed state.
  - o Project Settings Only  
Imports projects, configurations, notification policies, and job logs, from the repository file you select. All projects are imported in the undeployed state.  
Note: Any projects, configurations, notification policies and job logs that exist prior to the import will be deleted.
  - o User Settings Only  
Imports only the user setting information from the repository file you select. User setting information includes: network configurations, users and groups, licenses, job log filter parameters, system log levels, downtime rules and passwords.
7. Click Import. A warning is displayed.
8. Click Import to verify that you would like to proceed.

## Results

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The Integration Appliance imports the repository and restarts the Integration Appliance. When the import is complete, the WMC login window displays.

**Parent topic:** [Managing Integration Appliances](#)

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## Installing Libraries from Other Vendors

---

### About this task

If your integration project uses a connector that requires extra libraries, you must install the additional libraries before you deploy the project configuration. Deploying the project configuration before installing the additional libraries generates run time errors. For a complete list of connectors that require vendor libraries, open the Update Connector Libraries page. See the following procedure.

If you have a multi-environment tenant, you must install the vendor libraries in each environment where you deploy a project configuration with a connector that requires the additional libraries.

For example, you have a tenant with three environments: Development, Staging, and Production. You publish a project configuration for an SAP endpoint in the Development and Production environments. Before you can deploy the project configuration, you must install extra SAP libraries on both the Development and Production environments.

### Procedure

---

1. Click an environment tab.
2. Select System > Upgrade > Upgrade Connector Libraries to open the Update Connector Libraries page.
3. In the Connector column, select the connector for which you want to install additional files.

Any files that have already been installed display in the Installed Files column.

4. Click the plus (+) icon and select the library files to upload. In a Linux system, the valid files are .jar or .so; in a Windows system, the valid files are .jar or .dll. The files that you select are displayed in the Files to Add column.
5. Click Update.

The files that display in the Files to Add column are not committed until you click Update. If you click Reset before you click Update, WMC does not add the files that you have uploaded. If WMC times out before you click Update and commit the added files, repeat the last two steps.

**Parent topic:** [Managing Integration Appliances](#)

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## Scheduling Downtime

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### About this task

Scheduling downtime allows you to perform maintenance on an environment or related system. You can create downtime rules for project configurations that stop or suspend all enabled orchestration jobs in that project configuration for a specified duration of time. The project configuration does not have to be undeployed to create or edit a downtime rule. Downtime rules can occur once or repeat at specific intervals. You must have administrator or publisher permissions to create, edit, or delete a downtime rule.

By default, downtime rules are stored in GMT time zone. If an administrator modifies the system clock from GMT to another time zone, downtime rules are executed at the same absolute time. For example: You create a downtime rule to stop all orchestration between 4:00pm - 4:15pm GMT. The administrator then modifies the system clock to display PDT. Your downtime rule is modified to now stop all orchestration between 8:00am - 8:15am PDT. To execute the downtime rule at 4:00pm - 4:15pm PDT, you must edit the downtime rule. Times differences caused by daylight savings are automatically adjusted.

If the environment is offline when a downtime rule is scheduled to occur, all unexecuted rules are identified and executed in the appropriate order when the environment returns online. After all the backlogged downtime rules are executed, you regain control to modify the deployment state of a project configuration.

### Procedure

---

1. From the Navigation pane, select Repository > Configurations. The Project Configurations page is displayed.
2. Click the project configuration, which contains the downtime rule you want to work with. The Configuration Details page is displayed.
3. In the Scheduled Downtimes section, click New Rule. The New Downtime Rule dialog box is displayed.
4. Select one of the following actions from the drop-down list:
  - **Stop (allows jobs to finish)** - At the specified time, prevents any new orchestration jobs from starting while allowing current jobs to finish processing. This action facilitates a gracefully stop.
  - **Stop (cancel running jobs)** - At the specified time, prevents any new orchestration jobs from starting and stops all currently running jobs. This action immediately stops all jobs.
  - **Suspend** - At the specified time, prevents any new orchestrations from starting and pauses any jobs that are currently running. At the end of the scheduled downtime, the runtime processes the suspended job from the point it paused.
5. Specify the duration of the downtime by specifying a date and time for Start Downtime and End Downtime.
6. (Optional) Select the Repeat option to create a repeat downtime rule.
  - a. Specify a repeat interval (numeric value).
  - b. Specify frequency from the drop-down list: Days, Weeks, Months, or years.
7. Click Save.

### Results

---

The new downtime rule displays in the Scheduled Downtimes section and the Scheduled Downtime counter increases by one.

**Parent topic:** [Managing Integration Appliances](#)

# Edit Downtime Rules

---

## Procedure

---

1. From the Navigation pane, select Repository > Configurations. The Project Configurations is displayed
2. Click the project configuration, which contains the downtime rule you want to work with. The Configuration Details page is displayed
3. In the Scheduled Downtime section, click the downtime rule you want to edit. The Edit Downtime Rule displays.
4. Select one of the following actions from the drop-down list:
  - o **Stop (allows jobs to finish)** - At the specified time, prevents any new orchestration jobs from starting while allowing current jobs to finish processing. This action facilitates a gracefully stop.
  - o **Stop (cancel running jobs)** - At the specified time, prevents any new orchestration jobs from starting and stops all currently running jobs. This action immediately stops all jobs.
  - o **Suspend** - At the specified time, prevents any new orchestrations from starting and pauses any jobs that are currently running. At the end of the scheduled downtime, the runtime processes the suspended job from the point it paused.
5. Specify the duration of the downtime by specifying a date and time for Start Downtime and End Downtime.
6. Optional: Select the Repeat option to create a repeat downtime rule.
  - a. Specify a repeat interval (numeric value).
  - b. Specify frequency from the drop-down list: Days, Weeks, Months, or years.
7. Click Save.

## Deleting Downtime Rules

---

## Procedure

---

1. From the Navigation pane, select Repository > Configurations. The Project Configurations page is displayed.
2. Click the project configuration, which contains the downtime rule you want to work with. The Configuration Details page is displayed.
3. In the Scheduled Downtime section, select the downtime rule you want to delete. The Delete Rules confirmation window is displayed.
4. Click Yes.

## Results

---

The downtime rule no longer displays.

---

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# Specifying Network Settings

---

## About this task

---

Network opens Network Settings page.

The iA300 only has one physical port; however, for network configuration purposes, you specify separate IP addresses for data networking and management networking. The iA1000, iA1500, iA2000, iA2500, and iA3000 have two physical ports.

You must have Administrator privileges to specify network configurations. By default, the Integration Appliance uses DHCP to configure network settings. When you choose to use DHCP to configure network settings, the WMC displays the settings in the Network Configuration page. You can edit these settings by clearing the Use DHCP option or selecting the Manual option.

Note: Using DHCP to configure your network settings can result in longer startup times. For faster startup time, select the Manual option and specify a static value.

## Procedure

---

1. In the navigation pane, select Network. The Network Settings page is displayed.
2. Click Edit. The Edit Network Settings wizard is displayed.
3. In the Data Network section, select the Use DHCP option. If you clear this option, the Integration Appliance requires that you specify the IP address, subnet, and broadcast settings.

By default, the Integration Appliance uses DHCP to configure data network settings. To manually configure data network settings, clear the Use DHCP option and enter a valid value for the required settings. The Integration Appliance requires the following management network settings:

- IP address
- Subnet
- Broadcast

4. In the Management Network section, select the Use DHCP option. If you clear this option, the Integration Appliance requires that you specify the IP address, subnet, and broadcast settings.

By default, the Integration Appliance uses DHCP to configure management network settings. To manually configure management network settings, clear the Use DHCP option and enter a valid value for the required settings. The Integration Appliance requires the following management network settings:

- IP address
- Subnet
- Broadcast

5. Select a Gateway Interface and Gateway Source.
6. Select an option to set the HostName.
7. Select an option to set the Domain.
8. Select an option to set the DNS. When specifying multiple DNS values, use a space to separate the values.
9. Select an option to set the Time Server.
10. Click Next to validate settings.
11. Click Next to apply settings.
12. Click Finish.
13. Wait for the Integration Appliance to restart and log in.

**Parent topic:** [Managing Integration Appliances](#)

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## Executing a System Command

---

### Procedure

---

1. In the navigation pane, select System > Commands. The System Command page is displayed.
2. From the Choose Command list, select a command.
3. Click Go.

**Parent topic:** [Managing Integration Appliances](#)

## System Commands

---

From the Management Console, you can run system commands. Different system commands are available depending on the Integration Appliance configuration (stand-alone vs. high availability pairs) and Integration Appliance state (active or standby). The following table lists all system commands available from the Management Console and notes behavioral differences due to Integration Appliance configuration or state.

<b>Command</b>	<b>Description</b>
Remove job history	The remove job history command removes orchestration monitoring data.
Remove project and configurations	The remove projects and configurations command removes currently deployed project(s) data.
Remove all jobs in progress	The remove all job in progress command removes all currently running project data.
Download postmortem	The download postmortem command exports the postmortem archive to an FTP Server you specify. The Integration Appliance does not require that you specify an export file name; however, as a best practice, you should include the Integration Appliance serial number, date, and timestamp. If you do not specify an export file name, the Integration Appliance exports a file named postmortem.tar.gz. Note: Do not use reserved words in the user name or password.
Restart	Restarts the Integration Appliance routing subsystem.
Reboot	Shuts down all routing services and then reboots the Integration Appliance. If the force parameter is used, reboot begins immediately.
HA Connect	Only available for HA pairs. The ha connect command reconnects an Active and Standby Integration Appliance to create an HA pair that can resume fail-over operations. This command is only available if you disconnected an HA pair by issuing the HA Disconnect command.
HA Disconnect	Only available for HA pairs. The ha disconnect temporarily disconnects an HA pair without causing the Standby machine to take over the Active machine. This action allows you to perform any necessary hardware or software maintenance on the Standby machine without interrupting orchestration processing. When you choose this action, the Standby machine transitions to an idle state. Reboot the Active machine or execute the Connect action to reestablish communications between an HA pair and resumes data synchronization and fail-over operations. To perform maintenance on an Active machine, use the Switch action. The Active machine becomes the Standby machine, where you can use the Disconnect action and perform Integration Appliance maintenance without interrupting orchestration processing.
HA Switch	Only available for HA pairs. The ha switch command causes the Integration Appliances in an HA pair to switch roles: the Active machine becomes the Standby machine and the Standby machine becomes the Active machine.
Reboot active machine (allow peer takeover)	Only available for HA pairs. The reboot active machine (allow peer takeover) command shuts down all routing services and then reboots the active Integration Appliance in an HA pair. When you reboot the Active Integration Appliance using this command, the Standby Integration Appliance takes over data processing.

Command	Description
Reboot active machine (prevent peer takeover)	Only available for HA pairs. The reboot active machine (prevent peer takeover) command shuts down all routing services and then reboots the Active Integration Appliance in an HA pair. When you reboot the Active Integration Appliance using this command, the Active Integration Appliance stops all data processing and the Standby Integration Appliance does not take over data processing.
Reboot standby machine	Only available for HA pairs. Thereboot standby machine command reboots the Standby Integration Appliance in an HA pair. While the Standby Integration Appliance is rebooting, the Active Integration Appliance continues to process data. After a successful reboot, the Standby Integration Appliance synchronizes with the Active Integration Appliance.

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## Upgrading a Dell Integration Appliance

---

This section provides information on using the WMC to upload minor and patch releases to a Dell Integration Appliance. When you upgrade the appliance, you are able to access the latest features of the Cast Iron® operating system. This upgrade process only replaces or adds necessary files, it does not destroy any data.

### About this task

---

Use the Web Management Console (WMC) to upgrade to the latest version of Cast Iron operating system by uploading an upgrade image onto the appliance. Please note that the WMC forces any running projects to be undeployed and stops any active orchestration jobs currently running on the appliance during the upgrade procedure. After the appliance is upgraded, you cannot undo or rollback to the previous version.

Note: Upgrades may also be applied through the Command Line Interface (CLI). See the system update command in the *CLI Reference Guide* for more information about using this option.

### Procedure

---

1. Request the latest patch and download the patch to a location where you can access it. For example: C:\Desktop
2. Using the WMC, log into the Dell Integration Appliance that you want to upgrade.
3. Select System > Upgrade. The Upgrade page displays.
4. Click the Upgrade Operating System link. The Upgrade Wizard launches.
5. Click Browse to locate the upgrade file.
6. Click Upgrade. The Integration Appliance uploads the upgrade file and starts the upgrade process. When the upgrade is complete, the Integration Appliance automatically reboots.
7. When the reboot is complete, the WMC Login page displays. If the page does not display, click the browser refresh button.

### What to do next

---

Using the WMC, redeploy any projects that were undeployed by this upgrade procedure. Upgrade to a Studio version compatible with the installed Cast Iron operating system. For more information about appliance and Studio compatibility, see the Compatibility section of the *Cast Iron Operating System Release Notes* or the *Cast Iron Studio Release Notes*. For the procedure on upgrading Studio, see *Installing Studio*.

**Parent topic:** [Managing Integration Appliances](#)

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## Upgrading a DataPower Integration Appliance

---

This section provides information on using the WMC to upload minor and patch releases to a Cast Iron® Cast Iron XH40 Integration Appliance. When you upgrade the appliance, you are able to access the latest features of the Cast Iron operating system. The upgrade process only replaces or adds necessary files, it does not destroy any data.

### About this task

---

Use the Web Management Console (WMC) to upgrade to the latest version of Cast Iron operating system by uploading an upgrade image onto the appliance. Please note that the WMC forces any running projects to be undeployed and stops any active orchestration jobs currently running on the appliance during the upgrade procedure. After the appliance is upgraded, you cannot undo or rollback to the previous version.

Note: Upgrades may also be applied through the Command Line Interface (CLI). See the system update command in the *CLI Reference Guide* for more information about using this option.

### Procedure

---

1. Obtain the latest patch, then download the appliance upgrade image file to a location you can access from your Windows workstation, for example: C:\Desktop.
2. Use the WMC to log into the Integration Appliance running the Cast Iron operating system.
3. From the Items menu in the WMC, select System > Upgrade. The System Summary window is displayed showing the model, version and serial number.
4. Click Upgrade Operating System. The Upgrade window is displayed.
5. In the text field, specify the path to the appliance upgrade image file or click Browse to locate the upgrade image file.
6. Click Upgrade. In the Upgrade panel, the following message is displayed: Upload in progress. Please wait. A progress bar displays the status of the upload. When the upload is complete, the WMC validates the upgrade. If the upgrade is successful, the appliance reboots.
7. Use the WMC to log into the appliance. You may need to click the browser refresh button.

### What to do next

---

Using the WMC, redeploy any projects that were undeployed by this upgrade procedure. Upgrade to a Studio version compatible with the installed Cast Iron operating system. For more information about appliance and Studio compatibility, see the Compatibility section of the *Cast Iron Operating System Release Notes* or the *Cast Iron Studio Release Notes*. For the procedure on upgrading Studio, see *Installing Studio*.

**Parent topic:** [Managing Integration Appliances](#)

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## Working with Network Routes

---

You can add and delete network routes for the Integration Appliance.

**Parent topic:** [Managing Integration Appliances](#)

## [Adding Network Routes](#)

---

### **Procedure**

1. In the navigation pane, select Network. The Network Settings page is displayed.
2. Click Edit. The Edit Network Settings wizard is displayed.
3. In the Routes section, click New Rule. The New Network Route dialog displays.
4. Specify a destination.
5. Specify a netmask.
6. Choose an interface from the drop-down list.
7. Specify a gateway.
8. Click Save.
9. Click Next to validate settings.
10. Click Next to apply settings.
11. Click Finish.
12. Wait for the Integration Appliance to restart and log in.

## [Deleting Network Routes](#)

---

### **Procedure**

1. In the navigation pane, select Network. The Network Settings page is displayed.
2. Click Edit. The Edit Network Settings wizard is displayed.
3. In the Routes section, click Delete. A confirmation window displays.
4. Click Yes.
5. Click Next to validate settings.
6. Click Next to apply settings.
7. Click Finish.
8. Wait for the Integration Appliance to restart and log in.

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## [Managing Orchestrations](#)

---

Managing Orchestrations topics provide information about editing orchestration settings and exporting job reports.

- [About Orchestration Settings](#)

Orchestration settings allow you to configure properties for individual orchestrations in a project configuration. For each orchestration you can specify whether the orchestration is enabled, the logging levels, logging behavior, and the maximum number of jobs that the orchestration can simultaneously run.

- [Editing Orchestration Settings](#)

- [Exporting Orchestration Monitoring Data](#)

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## About Orchestration Settings

---

Orchestration settings allow you to configure properties for individual orchestrations in a project configuration. For each orchestration you can specify whether the orchestration is enabled, the logging levels, logging behavior, and the maximum number of jobs that the orchestration can simultaneously run.

When a project configuration is undeployed you can edit the following orchestration settings:

Orchestration Settings	Description
Enabled	Indicates whether an orchestration is enabled and can be deployed. At least one orchestration in a project configuration must be enabled to deploy a project configuration. By default, all orchestrations in a project configuration are enabled.
Logging Level	Allows you to specify the level of orchestration details that are logged in the System Logs. <ul style="list-style-type: none"><li>• <b>None</b> - Orchestration status and activity are not logged.</li><li>• <b>Initial Values</b> - Only the initial values of orchestration variables are logged.</li><li>• <b>Initial and Error Values</b>- Both the initial values of orchestration variables and orchestration errors are logged.</li><li>• <b>Error Values</b>- Only orchestration errors are logged.</li><li>• <b>Inline</b> - Orchestration job details are logged for suborchestrations inline with the job details of the calling orchestration.</li><li>• <b>All</b>- The highest level of logging. All orchestration activity is logged.</li></ul>
Log Synchronously	Allows the runtime to synchronize the writing of orchestration events to the orchestration monitoring logs as the orchestration is running.  By default, this orchestration setting is disabled and orchestration jobs are not synchronously logged.  Note:  When you enable this orchestration setting, the time it takes to process an orchestration job increases.
Max Simultaneous Job	Allows you to specify the number of orchestration jobs that can run simultaneously.

**Parent topic:** [Managing Orchestrations](#)

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## Editing Orchestration Settings

---

## Before you begin

---

To edit orchestration settings, the project configuration must be undeployed.

Tenant administrators, environment administrators (for the environment where the project is published), and publisher of a project can edit its orchestration properties.

## About this task

---

Note: If you grant project configuration permissions to a group, the users in that group will have full access to the project configuration--user will be able to create new versions of the project configuration, as well as edit and delete the project configuration.

## Procedure

---

1. Select the environment tab, where the project configuration is published.
2. From the navigation pane, select Repository > Configurations. The Project Configuration page is displayed.
3. If the project configuration you want to edit is running, stop the project configuration by clicking the icon in the Actions column. When the Stop Configuration dialog box displays, click one of the following options:
  - o Finish Jobs - At the specified time, prevents any new orchestration jobs from starting while allowing current jobs to finish processing. Allows the jobs to end.
  - o Cancel Jobs - At the specified time, prevents any new orchestration jobs from starting and stops all currently running jobs. This action immediately stops all jobs.
4. Undeploy the project Configuration, by clicking the icon in the Action Column.
5. Click the project configuration you want to edit. The Configuration Details page is displayed.
6. In the Orchestration section, click Edit to edit the orchestration settings. The Edit Orchestration Settings window is displayed.
7. Click Save.
8. Deploy the project configuration to begin processing orchestration jobs.

## Results

---

The updates you made display in the Orchestration section of the Configuration Details page and the runtime processes the orchestration as specified.

**Parent topic:** [Managing Orchestrations](#)

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## Exporting Orchestration Monitoring Data

---

### About this task

---

You can export orchestration monitoring data. When you export orchestration monitoring data, you can choose to delete the orchestration monitoring data that you export or choose to persist the orchestration monitoring data on the system.

If you choose to delete the orchestration monitoring data, there is no mechanism to recover the data.

## Procedure

---

1. In the navigation pane, select Logs > Job Logs. The Results page is displayed.
2. Click Export. The Export Jobs window is displayed.
3. Choose one of the following export options:
  - o Export and Delete - Exports the monitoring data and deletes the data from the environment.
  - o Export - Exports monitoring data and preserves data on the environment.

4. Click Download Now to download the exported log file.
5. Choose to open or save the file. If you choose to save the file, specify a location and click Save. The XML file is saved to the location you specified.

**Parent topic:** [Managing Orchestrations](#)

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## Managing Projects

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Managing Projects topics provide information about creating, managing, and deploying integration projects.

- [About Assets](#)
- [About Naming Projects and Configurations](#)
- [About Project Configurations](#)
- [About Projects](#)
- [Cloning Project Configurations](#)
- [Copying Projects](#)
- [Creating Projects From Scratch](#)
- [Creating Projects From a Template](#)
- [Deleting Project Configurations](#)
- [Deleting Projects](#)
- [Deploying Project Configurations](#)
- [Editing Project Configuration Properties](#)
- [Editing Projects](#)
- [About Database Assets](#)
- [Publishing Projects](#)
- [Push WSDL from Cast Iron Project to API Management](#)
- [Push REST API \(Swagger\) from Cast Iron Project to API Management](#)
- [Recreating Database Assets](#)
- [Required Quotes for Asset Table Names](#)
- [Reviewing TIPs](#)

You can rate and provide a review for all TIPs that you download.

- [Stopping Project Configurations](#)
- [Uploading Project Configurations](#)
- [Viewing and Saving Web Services Assets](#)
- [Working with Project Configurations](#)

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## About Assets

---

The Management Console groups assets by endpoint. Assets must be generated for database and Web Services endpoints that connect to the following orchestration activities:

- Starter database activities.
- Non-starter database activities with the exactly once delivery option specified.
- Provide Services activity.

For each database endpoint, you must specify unique values for configuration properties associated with the database assets before you can deploy a project configuration. Database assets are control tables, buffer tables, sequence tables, or triggers. All starter database activities are managed in one buffer table, while it manages events for each non-starter database activity with the exactly once delivery option specified in individual control tables

A WSDL for the Provide Services activity is generated by the integration environment. From the Management Console, you can save this Web Services asset.

**Parent topic:** [Managing Projects](#)

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## About Naming Projects and Configurations

Project and project configuration names cannot be longer than 42 characters. When you create a project or project configuration avoid using the following list of reserved characters.

Reserved Characters	Description
&	ampersand
{ } [ ] < > ^	any brackets
*	asterisk
\	backslash
^	caret
:	colon
\$	dollar sign
/	forward slash
#	number sign
( )	parenthesis
	pipe
.	period
?	question mark
;	semicolon
	space
~	tilde

**Parent topic:** [Managing Projects](#)

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## About Project Configurations

---

Project configurations allow you to create multiple variations of the same integration project, so you can create and publish one project and deploy it to many different scenarios. Within a project configuration you can specify which orchestrations are enabled, modify configuration properties for endpoints, generate or modify assets, manage scheduled downtime rules, and control permissions for the project configuration.

Each project you publish has a Default project configuration. In the Management Console, you can create additional project configurations. The project name, project version, configuration name, and project state uniquely identify each project configuration.

You must have Administrator privileges or be the publisher of the specific project to create, edit, and delete project configurations. Administrators and publishers can grant users and groups permissions that allow them to a create, edit, and delete project configurations.

The Summary section displays the details of the project configuration selected from Repository > Configurations. The summary section includes the project configuration name, status of the configuration, the date and time when the project was last published, the name of the user who published or cloned the project configuration. In addition, the summary page also displays the number of orchestrations, properties, assets, and the scheduled downtimes associated with the configuration.

Note: The name of the user who published or cloned the project configuration is displayed in the following formats:

- username [groupname] - indicates that this particular user (username) belonging to (groupname) is the one who published or cloned the project configuration.
- username {user does not exist} - indicates that the user does not exist in the integration appliance.

## Enabling and Disabling Orchestrations

---

The runtime only runs orchestration jobs for enabled orchestration. Before you can deploy a project configuration, the project configuration must contain at least one enabled orchestration. By default, all orchestrations are enabled.

Specifying the orchestration logging level allows you to control the type of orchestration errors that are written to the system logs. The Management Console also allows you to limit the number of jobs that run simultaneously. The number of jobs that run simultaneously can affect performance.

You must have administrator or publisher permissions to specify orchestration properties.

## Understanding Configuration Properties

---

You create these configuration properties for a project in Studio. For more information about creating project properties and specifying a project version, see the Studio online help.

When you publish the project, you can specify values for the configuration properties. The values you specify for the configuration properties determine how the project is deployed. For example, in a project that contains database endpoints, you can create properties for database connection parameters. This allows you to create a project configuration for a test environment connecting to a test database and then use the same project to create another project configuration for a production environment that connects to another database.

You must have administrator or publisher permissions to edit configuration properties in the Management Console.

## Modifying Assets

---

If your project configuration contains a database or WebServices endpoint, you must generate assets before you can deploy the project configuration. If your project does not contain a database or WebServices endpoint, assets are irrelevant to your project configuration.

You must have administrator or publisher permissions to generate or modify assets.

## Scheduling Downtimes

---

Scheduling downtime allows you to perform maintenance. You can create downtime rules for project configurations that stop or suspend all enabled orchestration jobs in that project configuration for a specified duration of time. The project configuration does not have to be undeployed to create or edit a downtime rule. Downtime rules can occur once or repeat at specific intervals.

You must have administrator or publisher permissions to create, edit, or delete a downtime rule.

## Editing Project Configuration Permissions

---

As an administrator or project publisher, you can grant permissions for project configurations to other users and groups. When you grant users or groups permissions to a project configuration they are able to create, edit, and delete the project configuration. By default, permissions to project configurations are granted to only the Administrator Group. If you want to grant permissions to another group you must explicitly do so.

For example, you are a user with publisher rights and belong to the built-in Publisher group. You publish a project. Only the Administrator Group and you have permissions to the project configuration. Members of the Publisher group, of which you are a member, do not have permissions to the project configuration. You must edit the permission on the project configuration to include another group like Publisher. For more information, see [Granting Project Configuration Permissions](#).

**Parent topic:** [Managing Projects](#)

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## About Projects

---

Projects contain components that the runtime needs to execute an integration scenario: orchestrations, endpoints, maps, and other documents. Use Studio to create and test projects without being connected to an integration environment.

Multiple people can publish multiple projects to the same integration environment. Use Studio to publish projects to an integration environment or export projects to a staging location. You can later use the Management Console to upload the exported project. You must have Administrator or Publisher privileges to publish or upload a project to the integration environment.

When you publish a project from Studio, the Management Console displays the project with default project settings; creating a default project configuration. You can clone this default project configuration to create new project configurations, which you can configure for separate development and production environments.

Use the Studio to create projects and specify endpoint configurations properties and then use the Management Console to specify project configurations and deploy project configurations.

**Parent topic:** [Managing Projects](#)

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## Cloning Project Configurations

---

### Before you begin

---

You must have Administrator privileges or be the publisher of a project to clone project configurations.

## About this task

---

Project configurations contain properties and assets that you can configure in the Management Console to create multiple variations of the same integration project. When you create a new configuration you can choose to clone an existing project configuration. A cloned project configuration inherits all the configurations from the original project configurations. However, if you edit the original configuration project, the changes are not propagated to the cloned project.

Note: The project configuration you clone does not display on the Favorites view, unless you explicitly add the project configuration to the view.

## Procedure

---

1. From the Navigation pane, select Repository > Configurations. The Project Configurations page is displayed.
2. From the Configuration Filter list, select All. All project configurations are displayed.
3. Locate the project configuration you want to clone.
4. Click the Clone icon . The Create Project Configuration dialog box is displayed.
5. Provide a unique name for the new project configuration.
6. Click OK.

## Results

---

The cloned project configuration displays on the Project Configurations page. The cloned project has all the same project configuration details as the original project configuration.

**Parent topic:** [Managing Projects](#)

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## Copying Projects

---

### About this task

---

The Management Console allows you to copy a project by assigning a new version number to an existing project.

## Procedure

---

1. Click the Modify tab. The Projects page is displayed.
2. Click the project you want to copy. The Copy Project dialog is displayed.
3. Enter a new project version. The version number can contain a decimal.
4. Click Save.

## Results

---

The copy of the project is displayed in alphabetical order in the Projects page.

**Parent topic:** [Managing Projects](#)

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## Creating Projects From Scratch

---

### About this task

---

You can create a project from scratch in the cloud.

### Procedure

---

1. Click the Create tab. The Solutions page is displayed.
2. Click Create One From Scratch. The Create Project dialog box is displayed.
3. Specify a unique project name.
4. Click Save. The project is displayed in the Projects page of the Modify tab.

### Results

---

You can now take edit, publish, delete or copy your project. Select the project to view the project details and assign permissions to your project. If you do assign permissions, click Save to save your updates.

Project details include the environment to which the project configuration was published, a timestamp of the last time you published the project, and the current state of the project configuration. For example: deployed.

**Parent topic:** [Managing Projects](#)

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### [Feedback | Notices](#)

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## Creating Projects From a Template

---

### About this task

---

You can create a project from a template. Templates are stored in the Solutions Repository. All users can create a template solution and upload it to the Solutions Repository.

Note:

Not all templates in the Solutions Repository are certified. The templates that are certified are denoted with a WebSphere® DataPower® Cast Iron® logo.

### Procedure

---

1. Click the Create tab. The Solutions page is displayed.
2. Search for a template.
  - a. Select a source endpoint.
  - b. Select a target endpoint.
  - c. Click Search.

You can also select the Keyword Search option to search for a template using a keyword.

3. Choose a template from the solutions that are returned. Template details display.

4. Click Create a project based on this template. Studio Cloud launches and the wizard steps you through the process of creating your project.

## Results

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**Parent topic:** [Managing Projects](#)

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## Deleting Project Configurations

---

### Before you begin

---

The publisher of a project configuration, the environment administrator, or tenant administrator can delete project configurations. The publisher of a project configuration can grant permissions that allow other users to delete his project configuration. The environment administrator can grant permissions that allow other users to delete any project configuration in the environment. The tenant administrator can grant permissions that allow other users to delete any project configuration in the tenant.

Project configurations must be undeployed before you can delete them.

### About this task

---

When you delete a project configuration, all monitoring history associated with the project configuration is also deleted.

### Procedure

---

1. Select the environment tab, where the project configuration is published. A list of project configurations is displayed in the Project Configuration section of the Dashboard.
2. Verify that the project configuration you want to delete is undeployed. The state displays in parentheses () at the end of the project configuration name. For example, (undeployed)
3. If the project configuration is in any other state but undeployed, undeploy the project configuration by clicking the Undeploy icon in the Actions column.
4. In the Actions column, click the Delete icon. The Delete Project Configuration dialog box displays.
5. Click Yes.

## Results

---

The project configuration is deleted and no longer available.

**Parent topic:** [Managing Projects](#)

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## Deleting Projects

---

## Before you begin

---

The publisher of a project, the environment administrator, or tenant administrator can delete projects. The publisher of a project can grant permissions that allow other users to delete his project. The environment administrator can grant permissions that allow other users to delete any project in the environment. The tenant administrator can grant permissions that allow other users to delete any project in the tenant.

## Procedure

---

1. Select the Modify tab. The Projects page displays a list of projects that can be published.
2. In the Actions column, click the Delete icon. The "Delete Project?" dialog box is displayed.
3. Click Yes.

## Results

---

The project is deleted; however, any project configurations created from this project are still available.

**Parent topic:** [Managing Projects](#)

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# Deploying Project Configurations

---

## Before you begin

---

To deploy or undeploy project configurations, you must have tenant administrator or environment administrator privileges, or be the publisher of the project configuration.

## About this task

---

The type of endpoint in an orchestration determines the steps you must complete to deploy a project configuration. A project configuration must contain at least one enabled orchestration before you can deploy the project configuration. If the orchestration contains a database or Web Services endpoint, you must also generate assets for the endpoints before you can deploy the project configuration.

By default, all the orchestrations in a project configuration are enabled. Therefore, if the orchestrations in a project configuration do not require additional configuration and do not access database or WebServices endpoints, you can deploy your project configuration by clicking the deploy icon next to the project configuration in any of the Project tabs. If your project configuration requires assets or additional configuration, see the following deployment procedure.

Note: A project configuration must be in the stopped state for you to undeploy the project configuration.

## Procedure

---

1. Select the environment tab to which you published your project.
2. In the Project Configuration section, select the project configuration you want to deploy. The Configuration Details page is displayed.
3. In the Orchestrations section, verify that at least one orchestration in the project configuration is enabled. Edit orchestration settings, as needed.

You cannot edit orchestration settings while a project configuration is running. Stop and undeploy the project configuration to edit configuration settings.

4. In the Properties section, edit configuration properties, as needed.

You cannot edit configuration properties while a project configuration is running. Stop and undeploy the project configuration to edit configuration settings.

5. If the project configuration contains a Database or Web Services endpoint, you must generate assets for these endpoints.
6. Optional: Add a schedule downtime rule.
7. Optional: Assign permissions for the project configuration, which specify which group of users can edit and deploy a project configuration. By default, tenant administrators, environment administrators, and the publisher of a project configuration can edit and deploy a project configuration.
8. If you assign permissions, click Save.
9. In the Summary section, click the Deploy icon () to deploy the project configuration.

## Results

---

The project configuration deploys, the runtime starts to process orchestration jobs, and the status is appropriately updated in the Summary section.

**Parent topic:** [Managing Projects](#)

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# Editing Project Configuration Properties

---

## Before you begin

---

You must have administrator or publisher permissions to edit configuration properties.

## About this task

---

You create configuration properties for an integration project in Studio, before you publish the project to an environment in the cloud. When you publish the project, you can specify values for the configuration properties. Configuration properties allow you to move a project configuration from a staging environment to a production environment.

For example, in a project that contains database endpoints, you can create properties for database connection parameters. This allows you to create a project configuration for a test environment connecting to a test database and then use the same project to create another project configuration for a production environment that connects to another database.

## Procedure

---

1. Select the environment tab, where the project configuration is published.
2. From the navigation pane, select Repository > Configurations. The Project Configuration page is displayed.
3. If the project configuration you want to edit is running, stop the project configuration by clicking the  Stop icon in the Actions column. When the Stop Configuration dialog box displays, click one of the following options:
  - Finish Jobs - At the specified time, prevents any new orchestration jobs from starting while allowing current jobs to finish processing. Allows the jobs to end.
  - Cancel Jobs - At the specified time, prevents any new orchestration jobs from starting and stops all currently running jobs. This action immediately stops all jobs.
4. Click the project configuration you want to edit. The Configuration Details page is displayed.
5. In the Properties section, click Edit to edit configuration property values.
6. Modify the configuration properties.
7. Click Save.

## Results

---

The Configuration Details page displays the updated configuration property values.

[Feedback](#) | [Notices](#)

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## Editing Projects

---

### About this task

You can edit projects in the cloud using Studio Cloud.

### Procedure

1. In the Modify tab, click the project name. Studio Cloud opens.
2. Edit the project as needed.
3. Click Save.

**Parent topic:** [Managing Projects](#)

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## About Database Assets

---

The type of database endpoint you use determines the assets that must be generated. The following table shows the assets that are generated for each supported database:

Note: In Cast Iron, asset tables are created with the identifier size of 30 characters. For asset tables, the format that Cast Iron follows is: CI\_CT\_<respective-table-name> (for Control Table), and CI\_BT\_<respective-table-name> (for Buffer Table). So you must use tables with names having a maximum of 24 characters.

Database	Assets Generated
<ul style="list-style-type: none"><li>• DB2® AS/400</li><li>• Informix®</li><li>• Microsoft SQL</li><li>• Sybase</li></ul>	<ul style="list-style-type: none"><li>• Buffer tables</li><li>• Control tables</li><li>• Triggers</li></ul>
Local Staging Database	<ul style="list-style-type: none"><li>• Buffer tables</li><li>• Control tables</li><li>• Index tables</li><li>• Triggers</li></ul>

Database	Assets Generated
Oracle	<ul style="list-style-type: none"> <li>• Buffer tables</li> <li>• Control tables</li> <li>• Triggers</li> <li>• Sequences</li> </ul>

Assets are only generated for starter activities and non-starter activities that specify the Exactly Once delivery option. Assets are not generated for non-starter activities that specify At Least Once or At Most Once delivery options.

Note: Control table names are appended with an activity ID to ensure all assets have unique names. This number does not distinguish multiple endpoints in an orchestration using the same control table.

**Parent topic:** [Managing Projects](#)

## Validating Database Assets

---

### About this task

Before you generate database assets, validate the assets. When you validate an asset, the integration environment verifies whether the buffer table or control table exists in the source database and verifies that table structures are correct.

Note:

Triggers and sequences are not validated .

### Procedure

1. In the navigation pane, select Repository > Configurations. The Project Configuration page is displayed.
2. Click the project configuration that requires database assets. The Configuration Details page is displayed.
3. Verify the project configuration is in the undeployed state.
4. In the Assets section, click Database. The Database Assets page is displayed.
5. Select all the assets you want to validate and click Validate.
6. The results returned determine the next step. The following table tells you how to interpret the feedback and how to proceed.
  - A green check mark - valid
  - A yellow warning sign = warning

### Database Asset Validation Feedback

---

Exists?	Valid?	Action
valid	valid	The asset exists in the database and the asset structure matches the project configuration you created in Studio. You can now deploy the project configuration.
valid	warning	The asset exists in the database, but the asset structure is incorrect. Check that the database script contains the appropriate columns and that the columns are in the correct order. If there is an error, recreate the asset.
warning	warning	The asset does not exist in the source database table. You must create the asset before you can deploy the project configuration.

Warning: Constraint names ending in a unique ID are generated. However, if the size of the database table name is greater than 18 characters, the constraint name is truncated resulting in a naming conflict. If the database table name is greater than 18 characters, edit the database assets script generated and make the constraint names unique.

## Generating Database Assets

---

### About this task

The project configuration must be undeployed before you can validate or generate assets. Validate assets before you generate them.

## Procedure

---

1. In the navigation pane, select Repository > Configurations. The Project Configuration page is displayed.
2. Click the project configuration that requires database assets. The Configuration Details page is displayed.
3. Verify the project configuration is in the undeployed state.
4. In the Assets section, click Database. The Database Assets page is displayed.
5. Select all the assets you want to generate. You can select all the assets by selecting the top-most check box.
6. Click Create.
7. Review and modify the database script as needed.

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## Publishing Projects

---

### Before you begin

---

You must be a tenant administrator, environment administrator, or environment publisher to publish projects.

### About this task

---

Publishing a project uploads a project from Studio to a runtime environment.

### Procedure

---

1. In the Management console, select the Modify tab. The Projects page displays.
2. In the Actions column, click the Publish Project icon. A list displays all the environments in the tenant.
3. Select the environment to which you want to publish the project.

### Results

---

A confirmation displays. The project is available in the environment you selected.

**Parent topic:** [Managing Projects](#)

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### [Feedback | Notices](#)

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## Push WSDL from Cast Iron Project to API Management

---

### Before you begin

---

You need to have valid IBM ID account on Cast Iron Appliance & API management to use this feature.

## About this task

---

This topic details how you can quickly create API in IBM API Management from WebSphere Cast Iron Project (WSDL) in a seamless manner.

## Procedure

---

1. Login to Cast Iron Web Management Console using your IBM ID.
2. Navigate to Repository > Configurations on the left panel.
3. Go to your Project configuration screen, click on the project which needs to be published to IBM API Management. This displays the Configuration Details of the project to be published.
4. Under Assets, click WebService. The Web Services Assets screen is displayed.
5. Select the orchestration whose WSDL need to created as API in IBM API Management.
6. Click on Push to API Management button at the bottom of the screen. The Push to API Management screen is displayed.
7. In the Push to API Management screen, enter the details of the following to create a connection to the API management system.

Field Name	Description
Host	Specifies the host name of the Management Cluster/Server/Cloud address.
Port	Specifies the port number needed to connect to the Management Cluster/Server/Cloud address.
User ID	Specifies the authentication user name used for accessing the Management Cluster/Server/Cloud address.
Password	Specifies the authentication password used for accessing the Management Cluster/Server/Cloud address.

8. Click Load Organizations button and then select the Organizations from the drop down list.
9. Click Pust to APIM. Click OK in the popup confirmation window.
10. Click Close.

## Results

---

A new tab on your browser opens with the newly created API.

**Parent topic:** [Managing Projects](#)

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[Feedback](#) | [Notices](#)

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# Push REST API (Swagger) from Cast Iron Project to API Management

---

## Before you begin

---

You need to have valid IBM ID account on Cast Iron Appliance & API management to use this feature. Also, you need to [Specifying Swagger information](#) in HTTP Receive Request activity.

## About this task

---

This topic details how you can quickly create API in IBM API Management from WebSphere Cast Iron Project in a seamless manner.

## Procedure

---

1. Login to Cast Iron Web Management Console using your IBM ID.
2. Navigate to Repository > Configurations on the left panel.
3. Go to your Project configuration screen, click on the project which needs to be published to IBM API Management.

Note: You can only push the Swagger for the projects whose status is either running or deployed. Otherwise, the Push to API Management button will not be displayed.

This displays the Configuration Details of the project to be published.

4. Click on Push to API Management button. The Push to API Management screen is displayed.

5. In the Push to API Management screen, enter the details of the following to create a connection to the API management system.

Field Name	Description
Host	Specifies the host name of the Management Cluster/Server/Cloud address.
Port	Specifies the port number needed to connect to the Management Cluster/Server/Cloud address.
User ID	Specifies the authentication user name used for accessing the Management Cluster/Server/Cloud address.
Password	Specifies the authentication password used for accessing the Management Cluster/Server/Cloud address.

6. Click Load Organizations button and then select the Organizations from the drop down list.

7. Click Push to APIM. Click OK in the popup confirmation window.

8. Click Close.

## Results

---

A new tab on your browser opens with the newly created API.

**Parent topic:** [Managing Projects](#)

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## Recreating Database Assets

---

### About this task

---

If a database asset exists but its structure does not match the source table, you must recreate the database asset before you can deploy the project configuration.

### Procedure

---

1. In the navigation pane, select Repository > Configurations. The Project Configuration page is displayed.
2. Click the project configuration that requires database assets. The Configuration Details page is displayed.
3. Verify the project configuration is in the undeployed state.
4. In the Assets section, click Database. The Database Assets page is displayed.
5. Select the assets you want to recreate.
6. Click Recreate.
7. Review and modify the scripts as needed.

**Parent topic:** [Managing Projects](#)

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## Required Quotes for Asset Table Names

---

The following table provides information about quotes that you must use to enclose asset properties to generate valid assets:

Database	Required Quotes
DB2® AS/400	" "
Informix®	[ ]
Microsoft SQL	[ ]
Oracle	" "
Sybase	[ ]

**Parent topic:** [Managing Projects](#)

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## Reviewing TIPs

---

You can rate and provide a review for all TIPs that you download.

Ratings are given on a scale of 1-5, where 5 is the highest rating. When you submit your rating and review for a TIP, Studio uploads the information to the WebSphere® Cast Iron® Solutions Repository. Your rating is combined with any other ratings that have been submitted by other reviewers and the average is displayed in the Details pane of the specific TIP.

**Parent topic:** [Managing Projects](#)

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[Feedback](#) | [Notices](#)

 Last updated: Thursday, 2 June 2016

file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Managing\\_Projects/reviewingTIPs.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Managing_Projects/reviewingTIPs.html)

## Stopping Project Configurations

---

### About this task

There are two ways to stop a running project configuration:

- **Stop (allows jobs to finish)** - When you click Finish Jobs, prevents any new orchestration jobs from starting while allowing current jobs to finish processing. This action allows the Integration Appliance to gracefully stop.
- **Stop (cancel running jobs)** - When you click Cancel Jobs, this option prevents any new orchestration jobs from starting and stops all currently running jobs. This action immediately stops all jobs.

### Procedure

---

1. From the Project Configurations page, select a project configuration.
2. In the Actions column, click the Stop icon . The Stop Configuration window is displayed.
3. Click either Finish Jobs or Cancel Jobs to stop the project configuration.

**Parent topic:** [Managing Projects](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/AppplianceHelp/Managing\\_Projects/stoppingProjectConfigurations.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/AppplianceHelp/Managing_Projects/stoppingProjectConfigurations.html)

## Uploading Project Configurations

---

### Before you begin

To upload a project configuration to the cloud, you must have tenant administrator, environment administrator, or environment publisher permissions.

### About this task

When you upload a project configuration, you are publishing a project using a two-stage process. First, you export a project from Studio to an intermediate location. Then from the Management Console, you upload the project to an Integration Appliance or cloud environment.

### Procedure

1. Select the environment tab, to which you want to upload the project configuration.
2. From the Navigation pane, select Repository > Upload Project. The Upload Project Configuration dialog box displays.
3. Enter the path from which to upload the project in the Local Project File field. You can click Browse to select a file from your local machine.
4. Specify a project name. The name should not exceed 42 characters and should not contain any restricted characters.
5. Specify a product version number. This field is not populated with the project version you specified in Studio. However as a best practice, you should specify a project version that matches the version you specified in Studio.
6. Click Upload.

### Results

The project configuration displays in the Project Configuration page.

**Parent topic:** [Managing Projects](#)

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[Feedback](#) | [Notices](#)

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## Viewing and Saving Web Services Assets

---

### About this task

The Management Console generates a WSDL file for a project configuration that contains a Provide Service Activity, which you can view or save for reference. View the WSDL to verify it is correct before you deploy the project configuration that contains this web services endpoint.

**Parent topic:** [Managing Projects](#)

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[Feedback](#) | [Notices](#)

 Last updated: Thursday, 2 June 2016

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Managing\\_Projects/viewingSavingWSAssets.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Managing_Projects/viewingSavingWSAssets.html)

## Working with Project Configurations

---

Various views are available for project configurations:

- **All** - Displays the deployment state and status of all project configurations, regardless of the state of the project configuration. You can clone or delete project configurations from this view.
- **Recent** - Displays the deployment state and status of the most recently published or modified project configurations. You can clone or delete project configurations from this view.
- **Favorites** - Displays the deployment state and status of project configurations for which you have permissions. By default, this view is not populated. You must explicitly add project configurations from either the Recent view or All view.
- **My Configurations** - Displays the deployment state and the status of the project configurations that you have published or cloned (configurations published by the user currently logged on).

You can access these views from the Dashboard or by selecting the following path in the Navigation pane: Repository > Configurations. The Configuration Filter allows you to choose your view from a list.

The following table describes information available in the various project configuration views:

Columns in Project Configuration Views	Descriptions
Configuration	Displays published project configurations.
Running	Displays the number of currently running jobs for the project configuration.
Completed	Displays the number of orchestration jobs, for the project configuration, that were completely processed.  When orchestration monitoring data is purged, the number of orchestration jobs is reset to 0. For more information about modifying log purging parameters, see the purging help topics.
Errored	Displays the number of orchestration jobs where a runtime error occurred for the project configuration.  When orchestration monitoring data is purged, the number of orchestration jobs is reset to 0. For more information about modifying log purging parameters, see the purging help topics.
Total	Displays the total number of orchestration jobs, for the project configuration, that have run.  When orchestration monitoring data is purged, the number of orchestration jobs is reset to 0. For more information about modifying log purging parameters, see the purging help topics.

Columns in Project Configuration Views	Descriptions
Actions	<p>Displays the state of project configurations, as well as options for you to delete  or clone  project configurations.</p> <p>▶ Clicking this icon deploys and runs a project configuration.</p> <p>⏸ Clicking this icon causes the runtime to suspend the orchestration job processing of the project configuration.</p> <p>⏏ Clicking this icon undeploys a project configurations. You must stop the project configuration before you can undeploy the project configuration.</p> <p>⏹ Clicking this icon stops the runtime from processing orchestration jobs for the project configuration.</p> <p>When you stop a project configuration, you can choose to have the runtime completely process all currently running jobs or have the runtime cancel all currently running jobs.</p> <p>★ Only available in All and Recent views. Clicking this icon adds the project configuration to Favorites.</p> <p>When the Management Console displays the project configuration in Favorites, this icon is no longer active next to the project configuration in the All and Recent views.</p> <p>✖ Clicking this icon removes the project configuration from Favorites, but does not delete the project configuration from the environment. You can view the project configuration from the All and Recent views.</p>

**Parent topic:** [Managing Projects](#)

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#### [Feedback | Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Managing\\_Projects/workingWithProjectConfigurations.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Managing_Projects/workingWithProjectConfigurations.html)

## Monitoring

---

Monitoring topics provide information about creating and managing notifications, viewing hardware status, searching orchestration jobs, and viewing orchestration job logs.

- [About the Web Management Console](#)
- [Choosing a Notification Level](#)

Notification levels define the severity of events that can trigger an alert. When you specify a notification level, an alert is only sent for errors that exceed the level you choose.

- [Creating Notification Policies](#)

Notification policies allow you to monitor potential errors in a specific system.

- [Deleting Notification Policies](#)

You can delete one or more notification policies.

- [Editing Notification Policies](#)
- [Enabling Email Notification Policies](#)
- [Searching for Orchestration Jobs](#)
- [Viewing Hardware Status](#)
- [Viewing Orchestration Job Logs](#)

The Dashboard displays information about orchestration jobs, including status, timestamp of job events, and key/job ID in multiple tabs:

- [SNMP basics](#)

The Simple Network Management Protocol (SNMP) is an Internet standard protocol used primarily in network management systems to monitor network devices for conditions that warrant administrative attention. Devices that typically support SNMP

include routers, switches, servers, workstations and printers. This section introduces SNMP basics and provides an overview of Cast Iron MIBs.

- [Setting up an SNMP receiver](#)

You can use the WMC to create notifications for events that happen in runtime components such as orchestrations, security, hardware and others. A delivery mechanism for these notifications is SNMP in which a trap is set for events. To retrieve these events, you must set up a receiver or manager that is registered with the appliance. Use the procedures in this section to set up an SNMP receiver.

- [Adding a notifications policy](#)

When you add a notifications policy, you inform administrators of alerts, policy violations and the status changes of job executions. Using SNMP traps, the notification system also allows you to send traps to SNMP-enabled third-party applications. Perform the following steps to add a notifications policy and assign it a name.

- [About the Resource Utilization Graph](#)

Describes how to use the data the Resource Utilization graph provides for capacity planning and understanding the health of the runtime environment.

- [Hardware health](#)

Use the information in this section to obtain notifications based on the hardware health of the appliance.

- [Testing the system](#)

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## About the Web Management Console

---

The Web Management Console (WMC) is a web-based management tool that allows you to:

- Manage the Integration Appliance
- Manage integration projects
- Monitor integration projects

You can access the same Integration Appliance from multiple WMCs. However, each WMC can only monitor and manage one Integration Appliance at a time. The tasks you can complete in the WMC depend on the user account you log in with. The WMC has built-in groups, which you can use to further control access to the Integration Appliance. Alternatively, you can specify an LDAP server to manage user and group authentication and authorization.

When you log into an Integration Appliance through the WMC, the Dashboard appears. The Dashboard provides multiple snapshot views of project configurations and jobs, a resource utilization graph, a list of unresolved critical system errors, and an overall project configuration summary. The Dashboard also allows you to search for orchestration jobs by job key. The Search box is located in the Results section of the dashboard.

The WMC displays the name of the current user as well as the date and timestamp set on the Integration Appliance. This date and timestamp do not necessarily represent the local date and time. For example, the Integration Appliance is set to GMT; however, you can log on to this Integration Appliance from a WMC in San Francisco, CA, which is in the PST time zone. Use the Command Line Interface (CLI) to modify the time zone of the Integration Appliance.

**Parent topic:** [Monitoring](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Monitoring/aboutDashboard.html>

# Choosing a Notification Level

---

Notification levels define the severity of events that can trigger an alert. When you specify a notification level, an alert is only sent for errors that exceed the level you choose.

Note: If you do not receive notifications for events, it might be that you do not have the system log level set to produce entries that would trigger a notification. For example, if you chose the Error level for Deployment, all events that were Error or Critical level in the Deployment system are logged.

You can specify the following notification levels:

Notification Level	Description
Critical	Sends an alert when an error condition causes the a shutdown.
Error	Sends an alert when non-critical issues that must be handled immediately occur.
Warning	Sends an alert when potential error conditions occur.
Info	Sends an alert for informational usage.

**Parent topic:** [Monitoring](#)

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# Creating Notification Policies

---

Notification policies allow you to monitor potential errors in a specific system.

## About this task

---

When you create a notification policy, the notification policy monitors the system log for the system you specify. When a system log event occurs that meets or exceeds the notification level of a notification policy, an alert is sent to the specified users.

Note: If you do not receive notifications for events, it might be that you do not have the system log level set to produce entries that would trigger a notification or you did not enable the notification policy. For more information about specifying system log settings, see "[Specify System Log Settings](#)". For more information about enabling email notification policies, see "[Enabling Email Notification Policies](#)".

## Procedure

---

1. Click the environment for which you will create a notification policy. The Navigation pane is displayed.
2. Select Logs > Notifications. The Notifications page is displayed.
3. Click New Policy. The New Policy dialog box is displayed.
4. Enter a policy name.
5. From the Level Exceeds list, select a level. Alerts are only sent for errors that exceed the level you choose.
6. From the With System list, select the system you want the notification policy to monitor.
7. Specify the email address or addresses of the person or people that will receive the email notification. When you have multiple email addresses, add one email address per line.
8. Click Save.

## Results

---

The new policy is displayed on the Notifications page. You must enable e-mail notifications before any alerts can be sent. If the email status is displayed as (inactive), email notifications are not enabled.

[Feedback](#) | [Notices](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Monitoring/creatingNotificationPolicies.html>

## Deleting Notification Policies

---

You can delete one or more notification policies.

### Procedure

---

1. Click the environment for which you will delete a notification policy. The Navigation pane is displayed.
2. Select Logs > Notifications. The Notifications page is displayed.
3. Select the check box for the policy you want to delete.

To delete multiple policies, select the top check box. All the policies are selected.

4. Click Delete. The Delete Policies? confirmation window is displayed.
5. Click Yes.

### Results

---

The policy is deleted and no longer displays in the Notifications page.

**Parent topic:** Monitoring

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[Feedback](#) | [Notices](#)

 Last updated: Thursday, 2 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Monitoring/deletingNotificationPolicies.html>

## Editing Notification Policies

---

### Procedure

---

1. In the Navigation pane, select Logs > Notifications. The Notifications page is displayed.
2. Click a notification policy. The Edit Policy dialog box is displayed.
3. Update the appropriate notification settings.
4. Click Save.

### Results

---

The updated policy is displayed on the Notifications page. You must enable email notifications before any alerts can be sent. If the Email status displays as (inactive), email notifications are not enabled.

**Parent topic:** Monitoring

---

 Last updated: Thursday, 2 June 2016

file:///dcs/markdown/workspace/Transform/out.html

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/AppplianceHelp/Monitoring/editingNotificationPolicies.html>

## Enabling Email Notification Policies

---

### About this task

---

When you create an email notification policy, you must enable the email notification policy for alerts to be sent. By default, email notifications are not enabled.

If you enable email notification policies, the settings you specified when you created the email notification determine when an email alert is sent.

Note: If you disable the email notification policy by clearing the Enable Email option, alerts are not delivered for any email notification policy.

### Procedure

---

1. Click the environment for which you will enable an email notification policy. The Navigation pane is displayed.
2. Select Logs > Notifications. The Notifications page is displayed.
3. At the top of the page, click the Email link. The Enable Email option is displayed.
4. Click the Enable Email option.
5. Optional: Provide an email subject line that will qualify the alert sent.
6. Click Save.

### Results

---

The Notifications page displays the new policy and Email status changes from (Inactive) to (Active). Email notifications will now be sent when an event that triggers the notification policy occurs.

**Parent topic:** [Monitoring](#)

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[Feedback](#) | [Notices](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/AppplianceHelp/Monitoring/enablingEmailNotificationPolicies.html>

## Searching for Orchestration Jobs

---

### About this task

---

Job IDs and keys allow you to search for orchestration jobs. You define primary message keys in Studio, when you configure connectors. The primary message key must be a unique value. For example, the purchase order number for a purchase order message. If you do not define a primary key, the runtime uses the job ID, a unique number that the runtime generates, to identify an orchestration job.

From the Management Console, you can search orchestration jobs by job ID. By default, the Management Console searches only for completed orchestration jobs that match the job ID you specify. Use the Advanced Search option to search for all other orchestration jobs.

## Procedure

---

1. From the navigation pane, select Dashboard.
2. In the Results section, enter a job ID in the Key Search field.
3. From your keyboard, press Enter. The completed job with the matching job ID is displayed.

**Parent topic:** [Monitoring](#)

# Using Advanced Search

---

## About this task

---

Use the Advanced Search option to further refine your job search. If you enter values for multiple fields in the Advanced Search box, the Management Console uses AND logic to refine the search.

For example, you specify a time range in addition to selecting the status that has an error. The Management Console searches for all orchestration jobs that had an error within the time range specified.

Note: If you choose to search by date and time, you must specify a start and end date and time.

## Procedure

---

1. From the navigation pane, select Dashboard.
2. In the Results section, select an orchestration. The Orchestration Details page displays all the jobs associated with the orchestration.
3. In the Advanced Search box, specify values for Job ID, Key, Status, Start Date and Time, or End Date and Time as appropriate for your search.  
Note: If you choose to search by date and time, you must specify a start and end date and time.
4. Click Search.

## Results

---

The search results are displayed in the table.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.appliance.doc/AppplianceHelp/Monitoring/searchingOrchestrationJobs.html>

# Viewing Hardware Status

---

The WMC allows you to monitor Integration Appliance resource utilization and hardware health.

## Viewing Resource Utilization

---

To view Integration Appliance CPU usage, memory usage, and disk space usage select System > Hardware Status. The Resource Utilization page is displayed.

The WMC displays a usage percentage for each resource utilization category listed. In cases where a category contains multiple components, like multiple CPUs, the percentage shown is an average of all the components displayed. In the Dashboard, the WMC provides a graphical summary of the Integration Appliance resource utilization data. For more information about interpreting the Resource Utilization graph, see [About the Web Management Console](#).

## Viewing Hardware Health

---

To view status about Integration Appliance hardware components, select System > Hardware Status. The Hardware Health page displays the status of fans, temperature, disks, and network links. A green checkmark indicates that the component is good working order

**Parent topic:** [Monitoring](#)

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## Viewing Orchestration Job Logs

---

The Dashboard displays information about orchestration jobs, including status, timestamp of job events, and key/job ID in multiple tabs:

- **All** - displays orchestration job information for all project configurations.
- **Recent** - displays orchestration job information for the most recently published or modified project configurations.
- **Favorites** - displays orchestration job information for the project configurations displayed in the Favorites filter. Orchestration job information displayed through this filter also displays in the Recent and All filters.

In some cases, the Management Console displays an orchestration job status of Unknown, even though the orchestration job completed successfully. Rebooting the environment, while orchestration jobs are processing, can result in the Unknown status because monitoring data is lost during the reboot. Stop all orchestration jobs before rebooting the environment to avoid an Unknown status.

Click an orchestration job to view the orchestration details for that orchestration. The Orchestration Details page displays all the jobs associated with the orchestration you selected and the status of each individual job. Use the Left and Right arrows (<<, <, >, >>) to view all orchestration jobs.

**Parent topic:** [Monitoring](#)

## Sorting Orchestration Jobs

---

### About this task

You can search orchestration jobs by job ID. To sort orchestration jobs by project configuration name, orchestration name, status, time, or job ID click the appropriate column header.

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Monitoring/viewingOrchestrationJobs.html>

## SNMP basics

---

The Simple Network Management Protocol (SNMP) is an Internet standard protocol used primarily in network management systems to monitor network devices for conditions that warrant administrative attention. Devices that typically support SNMP include routers, switches, servers, workstations and printers. This section introduces SNMP basics and provides an overview of Cast Iron MIBs.

In the lexicon of SNMP, a Cast Iron Integration Appliance is referred to as a "network element" or "managed device," indicating that it is a citizen on a network and available to be managed. Network elements include an *agent* that provides information about the element. Agents perform two key functions. First, they respond to requests from the management system and secondly, send notifications about events on the network element. Asynchronous notifications from agent to manager are referred to as *traps*.

SNMP traps enable an agent to notify the management station of significant events by way of an unsolicited SNMP message. Information provided through polling or traps are defined in Management Information Bases (MIBs). A MIB is a virtual database used for managing the entities in a communications network. MIBs define a hierarchy of objects, with each object having its own Object Identifier (OID). An OID is specified by numbers separated by periods, for example: ".1.3.6.1.2.1.1." A OID is sometimes referred to by a common name. For example, the specific OID .1.3.6.1.2.1.1 can be referred to as "system." The SNMP protocol defines many public MIBs, and also allows for organizations to define custom, application-specific MIBs.

## Understanding Cast Iron MIBs

---

Files downloaded from the Cast Iron WMC have multiple MIB DEFINITIONS = BEGIN - END sections. Each section comprises a MIB with its own hierarchy. To poll for Cast Iron-specific information, use CASTIRON-IA-MIB. Each MIB has a MODULE-IDENTITY that describes the MIB function. A comment section that follows MODULE-IDENTITY provides an overview of the MIB contents and contains an Object Summary that lists the name and OID of every MIB object.

Note: Some tools, such as those provided by NET-SNMP, require each MIB to be split into a single file. For more information on splitting MIBs, see [Setting up an SNMP receiver](#).

A section of the Object Summary from a CASTIRON-IA-MIB follows:

-- ciIaProjectSummary	ciiia.1.1.1
-- ciIaNbrProjects	ciiia.1.1.1.1
-- ciIaNbrRunningOrchs	ciiia.1.1.1.2
-- ciIaNbrStoppedOrchs	ciiia.1.1.1.3
-- ciIaNbrRunningJobs	ciiia.1.1.1.4
-- ciIaNbrCompletedJobs	ciiia.1.1.1.5
-- ciIaNbrErroredJobs	ciiia.1.1.1.6

As shown, an organizational node (in this case, OBJECT-IDENTITY, which is similar to a directory) called ciIaProjectSummary contains general information about projects. Inside that "directory" are specific items (OBJECT-TYPEs) containing the number of projects, the number of running and stopped orchestrations and more. To get more information about the meaning of these items, search the file for the name of the item. For example, to get information about ciIaNbrRunningJobs, searching the file for that string turns up the following:

```
ciIaNbrRunningJobs OBJECT-TYPE                                -- ciiia.1.1.1.4
    SYNTAX Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Total number of currently running jobs.
    "
::= { ciIaProjectSummary 4 }
```

The key areas are:

- ciIaNbrRunningJobs OBJECT-TYPE - Defines the name of the object. Note that there is a comment at the end giving a shortened form of the OID.
- SYNTAX Unsigned32 - This is an unsigned integer whose value could go up or down.
- MAX-ACCESS read-only - A read-only value. The manager may ask for it but cannot change it.
- DESCRIPTION - Describes the object.

The following example illustrates the data displayed when polling for ProjectSummary information:

```
$ snmpwalk -v 2c -c public -M "+/home/choller/mibs" -m "+CASTIRON-IA-MIB" flintstone2
ciIaProjectSummary
CASTIRON-IA-MIB::ciIaNbrProjects.0 = Gauge32: 2
CASTIRON-IA-MIB::ciIaNbrRunningOrchs.0 = Gauge32: 0
CASTIRON-IA-MIB::ciIaNbrStoppedOrchs.0 = Gauge32: 14
CASTIRON-IA-MIB::ciIaNbrRunningJobs.0 = Gauge32: 0
CASTIRON-IA-MIB::ciIaNbrCompletedJobs.0 = Gauge32: 0
CASTIRON-IA-MIB::ciIaNbrErroredJobs.0 = Gauge32: 0
```

The following data is displayed when polling lciIaProjectTable:

-- ciIaProjectTable	ciiia.1.1.2
-- ciIaProjectEntry	ciiia.1.1.2.1
-- ciIaProjEntryIndex	ciiia.1.1.2.1.1

```

-- ciIaProjEntryName          cia.1.1.2.1.2
-- ciIaProjEntryVersion       cia.1.1.2.1.3
-- ciIaProjEntryConfig        cia.1.1.2.1.4
-- ciIaProjEntryState         cia.1.1.2.1.5
-- ciIaProjEntryNbrRunning    cia.1.1.2.1.6
-- ciIaProjEntryNbrCompleted  cia.1.1.2.1.7
-- ciIaProjEntryNbrErrored   cia.1.1.2.1.8
-- ciIaProjEntryTimePublished cia.1.1.2.1.9

```

SNMP Tables can be challenging. SNMP tables indicate the name, version, configuration, state and other information about each project on the appliance, similar to a database schema. Each entry item (for example, ciIaProjEntryName, ciIaProjEntryVersion) describes a column in the table. You can search through the MIB for the string to find more information on each item. Note: Attempting to "walk" the Project table in an iterative fashion may present problems. Instead, always use a tool feature that understands tables when viewing table information. The following example illustrates a "walk" technique. In this case a project was published and then cloned to create a new configuration, resulting in two table rows. As the output indicates, it is difficult to understand which items are associated with specific rows. In this case, you need to view the index (the last piece of the OID) to determine the correct arrangement of items and rows.

```

$ snmpwalk -v 2c -c public -M "+/home/choller/mibs" -m "+CASTIRON-IA-MIB" flintstone2 ciIaProjectTable
CASTIRON-IA-MIB::ciIaProjEntryName.98304 = STRING: OnlineLicensing
CASTIRON-IA-MIB::ciIaProjEntryName.98305 = STRING: OnlineLicensing
CASTIRON-IA-MIB::ciIaProjEntryVersion.98304 = STRING: 1.0
CASTIRON-IA-MIB::ciIaProjEntryVersion.98305 = STRING: 1.0
CASTIRON-IA-MIB::ciIaProjEntryConfig.98304 = STRING: Default
CASTIRON-IA-MIB::ciIaProjEntryConfig.98305 = STRING: OnlineLicensingClone
CASTIRON-IA-MIB::ciIaProjEntryState.98304 = INTEGER: undeployed(1)
CASTIRON-IA-MIB::ciIaProjEntryState.98305 = INTEGER: undeployed(1)
CASTIRON-IA-MIB::ciIaProjEntryNbrRunning.98304 = Gauge32: 0
CASTIRON-IA-MIB::ciIaProjEntryNbrRunning.98305 = Gauge32: 0
CASTIRON-IA-MIB::ciIaProjEntryNbrCompleted.98304 = Counter32: 0
CASTIRON-IA-MIB::ciIaProjEntryNbrCompleted.98305 = Counter32: 0
CASTIRON-IA-MIB::ciIaProjEntryNbrErrored.98304 = Counter32: 0
CASTIRON-IA-MIB::ciIaProjEntryNbrErrored.98305 = Counter32: 0
CASTIRON-IA-MIB::ciIaProjEntryTimePublished.98304 = STRING: 2009-6-12,16:36:20.0,+0:0
CASTIRON-IA-MIB::ciIaProjEntryTimePublished.98305 = STRING: 2009-6-12,16:36:20.0,+0:0

```

When information is mapped using the snmptable command, it is displayed more clearly, as shown in the following example:

```

$ snmptable -v 2c -c public -M "+/home/choller/mibs" -m "+CASTIRON-IA-MIB" flintstone2
ciIaProjectTable
SNMP table: CASTIRON-IA-MIB::ciIaProjectTable

  PEN*      PEV PEC          PES      PER COM PEE      PETP
OnlineLicensing  1.0 Default  undeployed  0  0  0  2009-6-12,16:36:20.0,
                                         +0:0
OnlineLicensing  1.0 OnlineLicensingClone undeployed  0  0  0  2009-6-12,16:36:20.0,
                                         +0:0

```

\*Table Key: PEN=ciIaProjEntryName, PEV=ciIaProjEntryVersion, PEC=ciIaProjEntryConfig, PES=ciIaProjEntryState, PER=ciIaProjEntryNbrRunning, COM=ciIaProjEntryNbrCompleted, PEE=ciIaProjEntryNbrErrored, PETP=ciIaProjEntryTimePublished

Note that these examples use textual names rather than OIDs. Because a function of the MIB is to map between OID and textual name, you should not need to use OIDs on a regular basis.

**Parent topic:** [Monitoring](#)

[Feedback | Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/AppplianceHelp/Monitoring/snmp\\_basics.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/AppplianceHelp/Monitoring/snmp_basics.html)

## Setting up an SNMP receiver

You can use the WMC to create notifications for events that happen in runtime components such as orchestrations, security, hardware and others. A delivery mechanism for these notifications is SNMP in which a trap is set for events. To retrieve these events, you must set up a receiver or manager that is registered with the appliance. Use the procedures in this section to set up an SNMP receiver.

## About this task

---

When you set up an SNMP receiver, you download and split the MIBs, create the configuration file, enable notifications, add a notification policy and then test the system:

## Procedure

---

1. Click on **WMC: Logs-> Notifications -> SMNP**.
2. In the dialog box click **Download MIB**.
3. Add the MIBs to the machine you've designated to be the receiver.
4. Run the following script to split the MIBs into logical units. Note: the script assumes the file is in the local directory and that the file you downloaded is named castironsys.mib.

```
#!/bin/bash

sed -ne 's/DEFINITIONS ::= BEGIN.*//p' castironsys.mib |
while read mib; do
    echo $mib
    sed -ne "/^$mib/,/^END/p" castironsys.mib > $mib
done
```

5. Set up your SNMP manager of choice.
6. Select **WMC: Logs-> Notifications -> SMNP** to enable SNMP notifications. Be sure that the **Enable SNMP** checkbox is checked.
7. Add the receiver hostname.
8. Set the trap community to be **public**. This is defined in /etc/snmp/snmptrapd.conf as the **authCommunity** entry.
9. Click **Save**.

**Parent topic:** [Monitoring](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Monitoring/set\\_up\\_snmp\\_receiver.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Monitoring/set_up_snmp_receiver.html)

## Adding a notifications policy

---

When you add a notifications policy, you inform administrators of alerts, policy violations and the status changes of job executions. Using SNMP traps, the notification system also allows you to send traps to SNMP-enabled third-party applications. Perform the following steps to add a notifications policy and assign it a name.

## Procedure

---

1. Click on the **Policies** tab.
2. Click the **New Policy** link at the bottom left of the screen and give the policy a name.
3. In the **Notify When** row, select a level and system. Be sure the **SNMP checkbox** under the **Notify** section is checked.
4. Click **Save**.

## Example

---

The following table shows the system, level and messages delivered via the Uncategorized trap. The Uncategorized trap is named CASTIRON-IA-MIB::ciIaUncategorizedEv, Enterprise 1.3.6.1.4.1.13336.2.2.2.1.1.10, Trap 1.

Table 1.

<b>Header</b>	<b>Header</b>	<b>Header</b>
Network	Warning	Automatically added hostname to /etc/hosts, see "net show etchost."
Hardware	Warning	Fan is not functional. Fan: {0} Current Speed: {1} rpm Min Required Speed: {2} rpm Max Allowed Speed: {3} rpm Machine ID: {4}
Hardware	Info	Fan is functional. Fan: {0} Current Speed: {1} rpm Min Required Speed: {2} rpm Max Allowed Speed: {3} rpm Machine ID: {4}
Hardware	Critical	Temperature is out of range. Temperature sensor: {0} Current temperature: {1} degrees C Minimum: {2} degrees C Maximum: {3} degrees C Machine ID: {4}
Hardware	Info	Temperature is restored. Temperature sensor: {0} Current temperature: {1} degrees C Minimum: {2} degrees C Maximum: {3} degrees C Machine ID: {4}
Hardware	Warning	Power has been interrupted. Machine ID: {1}
Hardware	Info	Power has been restored. Machine ID: {1}
Hardware	Warning	The Integration Appliance {0} has been opened. Machine ID: {1}
Hardware	Info	The Integration Appliance {0} has been closed. Machine ID: {1}
Hardware	Critical	RAID Array {0} is offline. Machine ID: {1}
Hardware	Severe	RAID Array {0} is degraded, probably because of a disk failure. Machine ID: {1}
Hardware	Info	RAID Array {0} is optimal. Machine ID: {1}
Hardware	Critical	RAID Disk {0} on array {1} has failed. Machine ID: {2}
Hardware	Info	RAID disk {0} on array {1} is rebuilding. Do not remove the disk until the rebuild is completed. Machine ID: {2}
Hardware	Info	RAID disk {0} on array {1} is online. Machine ID: {2}
Hardware	Warning	High Availability System Failover successful
Hardware	Info	Network Interface Link Up. Network Interface {0} is now up Machine ID: {1}
Hardware	Warning	Network Interface Link Down. Network Interface {0} is now down Machine ID: {1}
Hardware	Critical	Incorrect number of CPUs: expected {0} but found {1}
Resources	Info	Swap space monitoring errors encountered.
Resources	Info	Suspending swap space monitoring for {0} seconds.
Resources	Info	Swap space usage is now below the {0}% warning threshold - current usage is {1}.{2}%
Resources	Info	Swap space usage is now below the {0}% critical threshold - current usage is {1}.{2}%
Resources	Warning	Swap space usage has exceeded the {0}% warning threshold - current usage is {1}.{2}%
Resources	Critical	Swap space usage has exceeded the {0}% critical threshold - current usage is {1}.{2}%
Resources	Info	Disk space monitoring errors encountered.
Resources	Info	Suspending disk space monitoring for {0} seconds.
Resources	Info	{0} disk space usage is now below the {1}% warning threshold - current usage is {2}.{3}%
Resources	Info	{0} disk space usage is now below the {1}% critical threshold - current usage is {2}.{3}%
Resources	Warning	{0} disk space usage has exceeded the {1}% warning threshold - current usage is {2}.{3}%
Resources	Critical	{0} disk space usage has exceeded the {1}% critical threshold - current usage is {2}.{3}%
Resources	Critical	HA peers are running different versions of CIOS!

**Parent topic:** [Monitoring](#)

---

[Feedback](#) | [Notices](#)

## About the Resource Utilization Graph

---

Describes how to use the data the Resource Utilization graph provides for capacity planning and understanding the health of the runtime environment.

The Resource Utilization graph tracks the following variables, which you can use to analyze the overall health of the runtime and calculate the available capacity for additional projects and orchestrations:

- % Disk Used
- % Memory Used
- GC Activity
- # Running Jobs

### % Disk Used

---

This variable tracks the percentage of disk space used by orchestration job variables and historical data.

When you run an orchestration job, the runtime uses the disk to store the variable data for that job. When you enable persistence, the stored variable data for jobs allows the Integration Appliance to provide a point-in-time recovery of orchestration jobs should the Integration Appliance encounter a fault that requires restarting the runtime.

The runtime also stores historical data about orchestration jobs, which you can view on the Web Management Console (WMC) Job Log page.

If the amount of disk space available becomes too low, the Integration Appliance generates an alert, which sends a notification to designated users.

### % Memory Used

---

The Integration Appliance has a fixed amount of available memory to run orchestrations. The % Memory Used variable tracks the amount of this fixed memory used by orchestration jobs and the corresponding variable data. When the memory allocated to orchestration jobs and variable data is no longer being used, the memory is returned to the pool of available memory using a process called garbage collection.

There is a direct relationship between the amount of memory used and garbage collection cycles. However, high memory usage does not necessarily mean an increase in full garbage collection cycles.

For more information about factors that affect the amount of memory used, see [Best Practices for Memory Management](#).

### GC Activity

---

Garbage collection is a process that returns memory, held by completed jobs and variable data, back to a pool of memory used by all orchestration jobs. This garbage collection process ensures that the Integration Appliance has a constant supply of free memory to be used by new orchestration jobs.

The GC Activity variable tracks the percentage of full garbage collections that occur in a minute. This percentage is calculated by dividing the number of full garbage collections by 6. Ideally, the GC activity should be at or below 50%, that is 3 full garbage collections per minute. Orchestration performance is severely degraded when 6 or more full garbage collections happen per minute.

For more information about garbage collection and factors that impact garbage collection, see [Best Practices for Memory Management](#).

### # Running Jobs

---

Displays the number of jobs currently running on the Integration Appliance.

**Parent topic:** [Monitoring](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Monitoring/about\\_the\\_resource\\_utilization\\_graph.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Monitoring/about_the_resource_utilization_graph.html)

## Hardware health

---

Use the information in this section to obtain notifications based on the hardware health of the appliance.

First you must prepare the SNMP Manager to receive Uncategorized traps (CASTIRON-IA-MIB::ciIaUncategorizedEv .1.3.6.1.4.1.13336.2.2.2.1.1.10 #1). Next you configure the SNMP Manager to poll for the following items and generate notifications when the conditions are met:

Table 1.

Parameters to Monitor	Recommended Thresholds	Snmp OID
Garbage Collections	Alert if this value changes quickly (by more than 6 counts in a 1-minute time period).	CASTIRON-IA-MIB::ciIaResNbrGarbageCollects .1.3.6.1.4.1.13336.2.2.2.1.1.2.1.0
Memory Usage	Alert if this value goes over 80% (raw value of 8000).	CASTIRON-IA-MIB::ciIaResPctMemoryUsed .1.3.6.1.4.1.13336.2.2.2.1.1.2.2.0
Disk Usage	Alert if this value goes over 75% (raw value of 7500).	CASTIRON-IA-MIB::ciIaResPctWipFull .1.3.6.1.4.1.13336.2.2.2.1.1.2.3.0

### Garbage collections

---

CASTIRON-IA-MIB::ciIaResNbrGarbageCollects counts the number of garbage collections that have occurred since the system was last restarted. While occasional garbage collections are normal, collections of 6 or more per minute is excessive and indicates that an appliance is overworked and as a result, may experience performance issues.

```
$ snmpwalk -On -v 2c -c public -M +. -m +CASTIRON-IA-MIB pebbles2.sanjose.ibm.com
CASTIRON-IA-MIB::ciIaResNbrGarbageCollects .1.3.6.1.4.1.13336.2.2.2.1.1.2.1.0 = Counter32: 149
```

### Memory usage

---

CASTIRON-IA-MIB::ciIaResPctMemoryUsed shows the percentage of total memory in use, expressed in hundredths of a percent. This number is updated after each garbage collection.

```
$ snmpwalk -On -v 2c -c public -M +. -m +CASTIRON-IA-MIB pebbles2.sanjose.ibm.com
CASTIRON-IA-MIB::ciIaResPctMemoryUsed .1.3.6.1.4.1.13336.2.2.2.1.1.2.2.0 = Gauge32: 1.84
```

Note that this value is provided as an integer (184 in this case), but the MIB causes the SNMP manager to alter its displayed value. Values expressed in hundredths of a percent are *usually* modified automatically. For example in this case, '1234' should be displayed as '12.34'. However, take care to ensure that the SNMP management tool handles this automatically. If it does not, the value will appear as follows:

```
$ snmpwalk -On -v 2c -c public pebbles2.sanjose.ibm.com
.1.3.6.1.4.1.13336.2.2.2.1.1.2.2.1.3.6.1.4.1.13336.2.2.2.1.1.2.2.0 = Gauge32: 184
```

Recommendation: Alert if this value goes over 80% (raw value of 8000).

### Disk usage

---

CASTIRON-IA-MIB::ciIaResPctWipFull indicates the percentage of total Work-in-progress (WIP) disk space in use, expressed in hundredths of a percent. This number is key for predicting job purging activities.

```
$ snmpwalk -On -v 2c -c public -M +. -m +CASTIRON-IA-MIB pebbles2.sanjose.ibm.com
CASTIRON-IA-MIB::ciIaResPctWipFull .1.3.6.1.4.1.13336.2.2.2.1.1.2.3.0 = Gauge32: 6.00
```

Recommendation: Alert if this value goes over 75% (raw value of 7500).

**Parent topic:** [Monitoring](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.appliance.doc/ApplianceHelp/Monitoring/hardware\\_health.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.appliance.doc/ApplianceHelp/Monitoring/hardware_health.html)

## Testing the system

---

To test the system, generate a trap by trying to log in with invalid user credentials. This trap should then get picked up by your SNMP manager.

**Parent topic:** [Monitoring](#)

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## Permissions

---

Permissions topics provide information about creating user profiles, setting and changing passwords, creating and managing users, and creating and managing groups.

- [About Built-In Groups](#)

Built-in groups are predefined groups. In the cloud, in addition to a tenant administrator group, each environment has a built-in administrator, publisher, and user group.

- [About Libraries Environments](#)

- [About User Profiles](#)

A user profile provides a summary of user details, such as: name, display name, email, and group memberships.

- [Assigning Users to Groups](#)

You must have tenant administrator or environment administrator privileges to assign users to groups. Environment administrators can only add users to groups in their specific environment.

- [Changing Your Password](#)

- [Changing User Passwords](#)

- [Creating New Groups](#)

In the cloud, only the tenant admin user can create new groups. In a multi-environment tenant, environment administrators can also create new groups for their specific environment.

- [Creating New Users](#)

In the cloud, only the tenant admin user can create new users. In a multi-environment tenant, environment administrators can also create new users for their specific environment.

- [Deleting Groups](#)

In the cloud, only the tenant admin users can delete groups from a cloud environment. In a multi-environment tenant, environment administrators can also delete groups for their specific environment.

- [Deleting Users](#)

In the cloud, only the tenant admin user can delete users from a cloud environment. In a multi-environment tenant, environment administrators can also delete users for their specific environment.

- [Granting Project Configuration Permissions](#)

You can grant permissions to a user or a group by editing the project configuration permission. When you grant permissions to a user or group, they can edit or delete the project configuration.

- [Local Staging Database Permissions](#)

Only users with Administrator privileges, granted as being part of the built-in Administrator group, can start, stop, and perform operations on the Local Staging Database.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Permissions/toc\\_permissions.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Permissions/toc_permissions.html)

## About Built-In Groups

---

Built-in groups are predefined groups. In the cloud, in addition to a tenant administrator group, each environment has a built-in administrator, publisher, and user group.

For example: A tenant, named Cumulus, is created for your organization. Within this tenant there are two environments: Development and Production. The following built-in groups would be available:

- admin [cumulus.com]
- admin [Development]
- publisher [Development]
- user [Development]
- admin [Production]
- publisher [Production]
- user [Production]

The same user can be a part of multiple groups. You can assign users to a built-in group or create a new group.

Note: If you grant project configuration permissions to a group, the users in that group will have full access to the project configuration--user will be able to create new versions of the project configuration, as well as edit and delete the project configuration.

The following list defines the permissions granted to each of the built-in groups:

- **Tenant Administrator Group.** Provides privileges to all environments, users, groups, and projects in a specific tenant. Permits users to create, edit, and delete users and custom groups in the tenant. Users in this group can add and delete users to and from any built-in or custom group in the tenant. Users in this group can view, edit, and delete permissions for all source projects in the tenant.

Users in this group can view all the environments in the tenant and have all the permissions of an environment administrator in each of the tenant environments.

- **Environment Administrator Group.** Provides privileges to all users, groups, and projects in a specific environment. Permits users to create, edit, and delete users and custom groups in a specific environment. Users in this group can add and delete users to and from any built-in or custom group in the environment.

Environment Administrators can also create and deploy project configurations for project that any environment publisher publishes, and view orchestration job details for any project configuration in the environment. With environment administrator group privileges you can edit permissions that publishers for the same environment set for their individual project configurations.

Even though members of the Environment Administrator group have Environment Publisher group and Environment User group privileges, the members of the Environment Administrator Group are not displayed in other groups in the same environment until you explicitly add the user.

- **Environment Publisher Group.** Provides project privileges in a specific environment. Permits users to create, deploy, or delete project configurations for any project that they publish in the environment. Users in this group can also start and stop orchestrations and view orchestration job details for project configurations they deployed in the environment. As an environment publisher, you can grant permissions for individual project configurations you create to another user with environment publisher privileges for the same environment.

The members of the Environment Publisher Group do not appear in the Environment User Group, until you explicitly add the user.

- **Environment User Group.** Permits users to monitor alerts and orchestrations in a specific environment. Users in this group can create and edit projects; however, they cannot publish the project to an environment. You must have Publisher privileges for the specific environment to which you want to publish a project. All users are automatically members of the Environment User group.

In a multi-environment tenant, users in this group only see the environment tab for environments of which they are a member. For example, a tenant has a Development, a Staging, and a Production environment. The tenant administrator or administrator of the Development environment adds a user to the User [Development] group. When the user logs in to the tenant, the user can only see the Development environment, even though the tenant has two other environments.

**Parent topic:** [Permissions](#)

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## About Libraries Environments

---

Libraries Environment is a user profile parameter that specifies the environment from which Studio retrieves connector libraries.

In a multi-environment tenant, each environment can potentially have different versions of connector libraries installed. Setting this parameter points Studio to the libraries you want to use while verifying your projects. This parameter is not as critical if your project does not use an endpoint that requires additional libraries to be installed. See the Connector Release Notes® for a complete list of endpoints that require you to install additional libraries.

Note: The environment you select should match the environment of the primary group the user is a member of. For example: If you select the Development environment as the Libraries Environment, you should be a member of groups in the Development environment.

**Parent topic:** [Permissions](#)

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Permissions/aboutLibrariesEnvironments.html>

## About User Profiles

---

A user profile provides a summary of user details, such as: name, display name, email, and group memberships.

You can access and edit user profile settings from the Settings link in the top right-hand corner of the Management Console. The user profile displayed is for the user currently logged in to the Management Console.

**Parent topic:** [Permissions](#)

## Accessing User Profile Information

---

### Procedure

---

1. Click the Settings link in the upper right-hand corner of the Management Console. The Settings window is displayed.
2. Optional: For the Display Name setting, click Edit to modify the display name. After you modify the setting, click Save.
3. Optional: For the Password setting, click Edit to modify the user's password. After you modify the setting, click Save.
4. Optional: For the Email setting, click Edit to modify the user's email address. After you modify the setting, click Save.
5. Optional: **Cloud:** Click Change Libraries Environment, to specify the environment from which Studio retrieves connector libraries. After you modify the setting, click Save.
6. Click Close to close the Settings window.

---

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## Assigning Users to Groups

---

You must have tenant administrator or environment administrator privileges to assign users to groups. Environment administrators can only add users to groups in their specific environment.

You can assign users to groups, when you create or edit a user. You can also assign users to groups, when you create or edit groups.

For more information about assigning users and groups, see [Creating New Users](#) and [Creating New Groups](#).

**Parent topic:** [Permissions](#)

---

#### [Feedback](#) | [Notices](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Permissions/assigningUsersToGroups.html>

## Changing Your Password

---

### About this task

You can change your own password at anytime. However, to modify another user's password, you must have tenant administrator permissions. Environment administrators cannot change passwords for users in their environment.

For example, you are the administrator for the Development environment. You can change your password, but you cannot change the password for any specific user with permissions to the Development environment.

### Procedure

1. Click the Settings link in the upper right-hand corner of the Management Console. The Settings window is displayed.
2. For the Password setting, click Edit.
3. Enter values for the Old Password, New Password, and Confirm Password fields.

If you clear the Hide Password Text option, your password displays and is no longer encrypted.

4. Click Save to change your password.

### Results

---

A confirmation message displays when the Management Console has successfully saved the new password.

**Parent topic:** [Permissions](#)

---

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## Changing User Passwords

---

### About this task

---

You can change your own password at anytime. However, to modify another user's password, you must have tenant administrator permissions. Environment administrators cannot change passwords for users in their environment.

For example, you are the administrator for the Development environment. You can change your password, but you cannot change the password for any specific user with permissions to the Development environment.

To change another user's password:

### Procedure

---

1. Log in to the Management Console as the tenant administrator.
2. Select Security > Users and Groups.
3. Click the name of the user whose password you want to change.
4. In the Edit User window, enter a password and confirm the password.

If you clear the Hide Password Text option, your password displays and is no longer encrypted.

5. Click Save to change your password.

### Results

---

A confirmation message displays when the Management Console has successfully saved the new password.

**Parent topic:** [Permissions](#)

---

[Feedback](#) | [Notices](#)

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file:///dcs/markdown/workspace/Transform/out.html

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Permissions/changingPasswordOthers.html>

## Creating New Groups

---

In the cloud, only the tenant admin user can create new groups. In a multi-environment tenant, environment administrators can also create new groups for their specific environment.

### Before you begin

---

On a physical or virtual Integration Appliance, only admin users can create new groups.

## Procedure

---

1. In the Management Console, login as administrator.
2. Select Security > Users and Groups.
3. In the Groups section, click New Group.
4. In the New Group dialog box, enter a Name and Display Name for your new group.
5. In the User list, select the users to join the group.  
Select the User checkbox to select all the users in the list.
6. Click Save.

## Results

---

In the Groups section of the Users and Groups page, the new group displays in alphabetical order.

**Parent topic:** [Permissions](#)

---

[Feedback](#) | [Notices](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Permissions/creatingNewGroup.html>

## Creating New Users

---

In the cloud, only the tenant admin user can create new users. In a multi-environment tenant, environment administrators can also create new users for their specific environment.

### Before you begin

---

On a physical or virtual Integration Appliance, only admin users can create new users.

## Procedure

---

1. In the Management Console, login as administrator.
2. Select Security > Users and Groups.
3. In the Users section, click New Users.
4. In the New User window, enter a value for the following fields: Name, Display Name, Email, Password, and Confirm Password.

It is recommended that you add the tenant name to the user name and display name.

For example, if the tenant name is ibm.com®, then the new user name should be *newuser@ibm.com*. This will help you identify common user names across multiple tenants in the cloud.

5. Optional: Clear the Hide Password Text checkbox. If you clear this option, the password you entered displays and is no longer encrypted.
6. In the Groups list, select all the groups to which the new user will have access.
7. Optional: Clear the Active checkbox. If you clear this option, the user cannot log in to the Management Console.
8. **Cloud only:** From the Libraries Environment list, select the environment from which the user's projects can retrieve additional libraries and files for endpoints. The environment you select should match the environment of the primary group the user is a member of. For example: If you select the Development environment as the Libraries Environment, you should be a member of groups in the Development environment.
9. Click Save.

## Results

---

In the Users section of the Users and Groups page, the new user displays in alphabetical order.

---

[Feedback](#) | [Notices](#)

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file:///dcs/markdown/workspace/Transform/out.html

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Permissions/creatingNewUser.html>

## Deleting Groups

---

In the cloud, only the tenant admin users can delete groups from a cloud environment. In a multi-environment tenant, environment administrators can also delete groups for their specific environment.

### Before you begin

---

On a physical or virtual Integration Appliance, only admin users can delete groups.

### Procedure

---

1. In the Management Console, select Security > Users and Groups.
2. In the Groups section, select the group or groups that you want to delete.
3. Click Delete.
4. Click Yes, to confirm that the Management Console should delete the selected groups.

### Results

---

The Management Console refreshes the list of groups.

**Parent topic:** Permissions

---

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file:///dcs/markdown/workspace/Transform/out.html

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Permissions/deletingGroups.html>

## Deleting Users

---

In the cloud, only the tenant admin user can delete users from a cloud environment. In a multi-environment tenant, environment administrators can also delete users for their specific environment.

### Before you begin

---

On a physical or virtual Integration Appliance, only admin users can delete users.

### Procedure

---

1. In the Management Console, login as administrator.
2. Select Security > Users and Groups.
3. In the Users section, select the user or users that you want to delete.
4. Click Delete.
5. Click Yes, to confirm that the Management Console should delete the selected users.

### Results

---

The Management Console refreshes the list of users.

**Parent topic:** [Permissions](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Permissions/deletingUsers.html>

## Granting Project Configuration Permissions

---

You can grant permissions to a user or a group by editing the project configuration permission. When you grant permissions to a user or group, they can edit or delete the project configuration.

### Before you begin

---

You must have Administrator privileges or you must be the publisher of a project to grant permissions to other users or groups to edit or delete project configurations.

### About this task

---

By default, permissions to project configurations are granted to only the Administrator Group. If you want to grant permissions to another group you must explicitly do so.

For example, you are a user with publisher rights and belong to the built-in Publisher group. You publish a project. Only you, the Administrator Group members, and the members of the Publisher group that you belong to, will have permissions to the project configuration. If you would like to include another group to have permissions to the project configuration, you must edit the permission on the project configuration to include another group.

To edit permissions:

### Procedure

---

1. Click a project configuration. The Configuration Details page is displayed.
2. In the Permissions section, click Edit under Group or User and select group or groups and user or users to grant permissions to.
3. Click Save.

Note: When permission is given to a group, all the users in that group are granted permission to the project configuration by default. You cannot remove permissions for an individual user from this group. If any user (outside this group) requires access to the project, you can grant permissions to the user by selecting only that user from the user table.

### Results

---

All the users and groups you select now have full access to the project configuration. These users and groups can now edit and delete the project configuration.

**Parent topic:** [Permissions](#)

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[Feedback](#) | [Notices](#)

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## Local Staging Database Permissions

---

Only users with Administrator privileges, granted as being part of the built-in Administrator group, can start, stop, and perform operations on the Local Staging Database.

Users with Publisher privileges can view tables and perform operations on the database, only if the Local Staging Database has already been started by a user with Administrator privileges. If the Local Staging Database has not been started, users with Publisher privileges will not be able to view the database or perform operations on the database.

Users that are part of the built-in Users group or with WMC login credentials created in an LDAP Server do not have access to the Local Staging Database.

**Parent topic:** [Permissions](#)

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[Feedback](#) | [Notices](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Permissions/localStagingDBPermissions.html>

## Using Secure Connectors

---

Using Secure Connectors topics provide information about creating, installing, and managing Secure Connectors.

- [About Secure Connectors](#)
- [Secure Connector Minimum Requirements](#)

This topic provides information about minimum system requirements needed to use a Secure Connector.

- [Creating Secure Connectors](#)

This topic provides information about creating Secure Connectors.

- [Downloading Secure Connector Configuration Files](#)

How to download Secure Connector configuration files.

- [Installing Secure Connectors](#)

Provides procedures to download the Secure Connector installer and install the Secure Connector.

- [Adding or importing certificates to the Secure Connector TrustStore/KeyStore](#)

For Cast Iron connector activities, such as HTTP, FTP, Email, or Web Services (or any other connector) that need to establish connection with the SSL enabled server (HTTPS/FTPS), you must import the corresponding certificates into the TrustStore or KeyStore of the Secure Connector.

- [Installing Vendor Supplied Libraries for Secure Connectors](#)

Certain endpoints require additional libraries to be installed before the Secure Connector can communicate with them. This section provides information about using the Web Management Console (WMC) to install these vendor supplied libraries. For a complete list of connectors that require vendor supplied libraries, open the Update Connector Libraries page in WMC.

- [Downloading and installing the SAP libraries](#)

To connect to an SAP system from studio, you must install SAP DLLs and JAR files onto your Windows development machine. You must have the SAP login credentials to enter the SAP Support Portal and download the files.

- [Uninstalling Secure Connectors \(Windows\)](#)

This topic provides information about uninstalling a Secure Connector from a Windows machine.

- [Uninstalling Secure Connectors \(Linux\)](#)

This topic provides information about uninstalling a Secure Connector from a Linux machine.

- [Starting and Stopping Secure Connectors](#)

Starting and Stopping Secure Connectors topics provide information about starting and stopping Secure Connectors on Windows and Linux machines. For Windows machines, options you chose during installation affect how you can start and stop Secure Connectors. If you installed the Secure Connector as an automatic Windows Service, as recommended, then you can use the Windows Services control panel to stop and start the Secure Connector. If you installed the Secure Connector as a Windows application, then you can start and stop the Secure Connector using Windows Start menu shortcuts or desktop

shortcuts. For Linux machines, you can start and stop Secure Connectors by using a graphical interface or by running commands from the command line.

- [Upgrading Secure Connectors](#)

This topic provides information about upgrading Secure Connectors.

- [Updating Secure Connector Configuration](#)

This topic provides information about updating Secure Connector configuration.

- [Monitoring Secure Connector](#)

You can use the Monitoring tool to check the status of a Secure Connector (SC1) and provide an alternate Toggle Secure Connector (SC2) in case of Secure Connector (SC1) stops working. In case of failure of SC1, specifying SC2 will switch all the projects using SC1 to use SC2 to provide continuous availability of Cast Iron projects.

- [Troubleshooting Secure Connectors](#)

This topic provides potential solutions for issues you have with the Secure Connector.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Secure\\_Connector/toc\\_using\\_secure\\_connectors.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Secure_Connector/toc_using_secure_connectors.html)

## About Secure Connectors

---

A Secure Connector facilitates the secure transfer of data between the IBM® WebSphere® Cast Iron® appliance and an endpoint that is located behind a firewall. The Secure Connector installer for appliance supports both 32-bit and 64-bit Windows and Linux machines.

To enable a Secure Connector, a tenant administrator must complete the following tasks:

- Create a Secure Connector
- Download the Secure Connector configuration file
- Launch the Secure Connector installer
- Install vendor supplied libraries

**Parent topic:** [Using Secure Connectors](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Secure\\_Connector/aboutSecureConnectors.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Secure_Connector/aboutSecureConnectors.html)

## Secure Connector Minimum Requirements

---

This topic provides information about minimum system requirements needed to use a Secure Connector.

You can run the Secure Connector on the following operating systems:

- Microsoft Windows 7
- Microsoft Windows 8
- Microsoft Windows 2008
- Microsoft Windows 2012 R2 64 bit server

- Linux (RHEL 6.5, Ubuntu 14.04)

Note: For installing Secure Connectors on Linux platform, use xWindows or KDE environment to use the GUI option.

The Secure Connector has the following minimum system requirements:

- 1 GHz CPU
- 2 GB RAM
- Java 1.7 and above.

**Parent topic:** [Using Secure Connectors](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/AppplianceHelp/Secure\\_Connector/secureConnectorMinimumRequirements.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/AppplianceHelp/Secure_Connector/secureConnectorMinimumRequirements.html)

## Creating Secure Connectors

---

This topic provides information about creating Secure Connectors.

### About this task

---

Use the Web Management Console (WMC) to create a Secure Connector for your environment.

After you create a Secure Connector in the appliance, you must configure a machine behind the firewall to facilitate communication between the Secure Connector and a specific endpoint behind the firewall. Use the Secure Connector installer to configure the machine behind the firewall.

Note: If the endpoint you are creating requires extra libraries for a Secure Connector, use WMC to install the libraries before you deploy any project configurations that use the Secure Connector.

### Procedure

---

1. From the navigation pane of an environment tab, select System > Secure Connectors.
2. Click New Secure Connector. The Create Secure Connector dialog box is displayed.
3. Provide a name for the new Secure Connector.
4. Provide a brief description of the Secure Connector.
5. Click Save. The Secure Connector is displayed in the Secure Connector page.

#### Downloading the Secure Connector installer:

You can download the Secure Connector installer from the Cast Iron installer CD, Fix Central, or IBM Passport Advantage. You can download for Windows or Linux, 32-bit or 64-bit, based on your requirement.

**Parent topic:** [Using Secure Connectors](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/AppplianceHelp/Secure\\_Connector/creatingSecureConnectors.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/AppplianceHelp/Secure_Connector/creatingSecureConnectors.html)

## Downloading Secure Connector Configuration Files

---

How to download Secure Connector configuration files.

## About this task

---

When you download a configuration file, the configuration file is saved to your default download directory. You can choose to save configuration files to different locations. Regardless of the number of configuration files you download, you can only use one configuration file during the Secure Connector installation process.

When you have selected a configuration file to set up a Secure Connector, that configuration file is used to configure any subsequent Secure Connector. It is not recommended to configure multiple Secure Connectors using the same configuration file. Instead, use a new configuration file or modify the existing configuration file. The Gateway, Listen to Port, and Transmit to Port parameters should have unique values for each Secure Connector.

The Secure Connector configuration file provides the Secure Connector installer with values for the following parameters:

- **Secure Connector Name** - Specify the name of the Secure Connector you created.
- **Tenant ID** - Use the default value provided in the file. It is used for internal communication.
- **Environment ID** - Use the default value provided in the file. It is used for internal communication.
- **Gateway** - Use the default value provided in the file. It is the data network IP on which the appliance is running.
- **Listen on Port** - Only modify this parameter if another service is using the port that is specified or you want to run multiple Secure Connectors on the box.
- **Transmit on Port** - Only modify this parameter if another service is using the port that is specified or you want to run multiple Secure Connectors on the box.
- **Secure Connector Auth Key** - Specify the authentication key from the Secure Connector you created in the appliance.
- **Secure Connector Private Key** - Specify the authentication private key, which you downloaded while creating the Secure Connector in the appliance.

Note: If you are using secure connector on appliance then:

- Ensure that the appliance IP is reachable (you are able to ping) from the machine where the secure connector is installed.
- The ports mentioned below are used internally by the appliance for communication with the Secure Connector. It is recommended that you do not use these ports on the appliance in any of your orchestration activities that involves HTTP Receive Request activity and Web Service activities.
  - - 9080
    - 9442
    - 9443
    - 9445

To download the Secure Connector configuration files, complete the following steps:

## Procedure

---

1. Log into the Web Management Console as the tenant administrator.
2. From the Navigation pane of an environment tab, select System > Secure Connector.
3. In the Secure Connector window, click the Secure Connector that will communicate with an endpoint behind the firewall. The Edit Secure Connector dialog box is displayed.
4. Click Download Secure Connector Configuration and click Download now. The Opening Secure Connector Configuration dialog box is displayed.
5. Choose Save File and click OK. The configuration file is saved to the default download directory of the current user.

**Parent topic:** [Using Secure Connectors](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.appliance.doc/ApplianceHelp/Secure\\_Connector/downloading\\_secure\\_connector\\_configuration\\_files.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.appliance.doc/ApplianceHelp/Secure_Connector/downloading_secure_connector_configuration_files.html)

# Installing Secure Connectors

---

Provides procedures to download the Secure Connector installer and install the Secure Connector.

## Before you begin

---

For Windows installations, verify that you do not have an existing version of the Secure Connector installed. If you have a previous version that is installed, uninstall it before you proceed.

For Linux installations, while it is not required, it is good practice to uninstall previous Secure Connector installations.

For Linux machines, install a desktop environment, such as GNOME or KDE, to provide a graphical interface.

## About this task

---

After you create a Secure Connector in the appliance, you must configure a machine behind the firewall to facilitate communication between the Secure Connector and a specific endpoint behind the firewall. Use the Secure Connector installer to configure the machine behind the firewall.

Note: The machine on which you choose to run the installer must have access to the endpoint. You do not have to run the installer on the same machine as the endpoint.

Note: If you are using secure connector on appliance then:

- Ensure that the appliance IP is reachable (you are able to ping) from the machine where the secure connector is installed.
- The ports mentioned below are used internally by the appliance for communication with the Secure Connector. It is recommended that you do not use these ports on the appliance in any of your orchestration activities that involves HTTP Receive Request activity and Web Service activities.
- - 9080
  - 9442
  - 9443
  - 9445

### Downloading the Secure Connector installer:

You can download the Secure Connector installer from the Cast Iron® installer CD, Fix Central, or IBM® Passport Advantage®. You can download for Windows or Linux, 32-bit or 64-bit, based on your requirement.

### To install the Secure Connector:

1. Start the Secure Connector installer that you downloaded.
  - windows-secure-connector-installer.exe (for Windows)
  - linux-secure-connector-installer.sh (for Linux)

The Secure Connector Installer wizard is displayed.

2. Click Next then read and accept the licensing agreement.
3. Click Next and choose an installation directory.
4. Click Next. A message window states the location where the target directory is created.  
Note: If an installation directory exists, a warning message is displayed and you must confirm that you want to install and overwrite existing files.
5. Click OK.
6. Set up shortcut options to start, stop, and edit a Secure Connector.
  - a. Select one or both of the following options:
    - Create shortcuts in the Start menu.
    - Create additional shortcuts on the desktop.
  - b. Select a program group from which you access the shortcuts.
  - c. Choose to create shortcuts for the current user or all users.
7. Click Next. The installation progress displays.
8. Select a Secure Connector configuration file. If you have not already downloaded a Secure Connector configuration file, download one now. For more information about how to download Secure Connector configuration files, see [Downloading Secure Connector Configuration Files](#).
9. Click Next.
10. For Windows installation, choose to install and run the Secure Connector as a Windows Service. If you choose install the Secure Connector as a Windows Service, you can control the Secure Connector using the Windows Services control panel

(recommended). If you choose not to install and run the Secure Connector as a Windows Service, then the Secure Connector is installed as a Windows application. To run the Secure Connector as a Windows Service, you must specify the following service account information:

- Service Start Mode
- Service Account Domain
- Service Account User
- Service Account Password

11. Click Next. The Create Vendor Supplied Libraries screen is displayed.

12. Click Add and select the library files to upload. In the appliance, the valid files are .jar, .dll, and .so file types. The files that you select are displayed in the Files to Add column.

13. Click Update.

The files that display in the Files to Add column are not committed until you click Update.

14. Click Next. A dialog box is displayed to confirm the changes made, if you have not clicked the Update button. Click Yes to update changes and proceed further. If you click No to go to the next screen without any changes. Click the Cancel button to stay on the same screen.

15. When you click Yes to proceed further, the Vendor JAR created/updated successfully message is displayed.

16. Click OK. A message saying that the installation has completed successfully is displayed.

17. Restart the Secure Connector.

Note: If your endpoint (that is SAP) requires additional libraries, you must install the additional libraries before you start the Secure Connector. For more information about installing additional libraries, see [Installing Vendor Supplied Libraries for Secure Connectors](#).

#### To run the Secure Connector installer:

1. Start the Secure Connector installer that you downloaded in the Creating a Secure Connector section.

- windows-agent-installer.exe (for Windows)
- linux-agent-installer.sh (for Linux)

2. Accept the licensing agreement and choose an installation directory.

3. Log in to the Web Management Console as the administrator.

4. Select Setup > Support Information. Keep the Support Information page open while configuring the Secure Connector installer parameters. You can cut and paste values from the Support Information page to the appropriate parameter field.

5. Provide values for the following parameters:

- **Secure Connector Name** - Specify the name of the Secure Connector you created.
- **Tenant ID** - Use the default value provided in the file. It is used for internal communication.
- **Environment ID** - Use the default value provided in the file. It is used for internal communication.
- **Gateway** - Use the default value provided in the file. It is the data network IP on which the appliance is running.
- **Listen on Port** - Modify this parameter only if another service is using the port that is specified or you want to run multiple Secure Connectors on the box.
- **Transmit on Port** - Modify this parameter only if another service is using the port specified or you want to run multiple Secure Connectors on the box.
- **Secure Connector Auth Key** - Specify the authentication key from the Secure Connector you created in the cloud.
- **Secure Connector Private Key** - Specify the authentication private key, which you downloaded while creating the Secure Connector in the cloud.

6. Open a command prompt and navigate to the Secure Connector installation directory.

7. If your endpoint (that is, SAP) requires additional libraries, you must install the additional libraries before you start the Secure Connector. For more information about installing additional libraries, see [Installing Vendor Libraries on the Secure Connector](#).

8. Start the Secure Connector by running one of the following files at the command prompt:

- For Windows: runclient osgi.bat

- o For Linux: `runclient osgi.sh`

**Parent topic:** [Using Secure Connectors](#)

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## Adding or importing certificates to the Secure Connector TrustStore/KeyStore

---

For Cast Iron connector activities, such as HTTP, FTP, Email, or Web Services (or any other connector) that need to establish connection with the SSL enabled server (HTTPS/FTPS), you must import the corresponding certificates into the TrustStore or KeyStore of the Secure Connector.

### Procedure

---

1. Use the Java keytool utility to import the required certificates to TrustStore(cacerts) or KeyStore(cert) in the path mentioned:  
`<secure_connector_install_directory>\etc\security`
2. Restart Secure Connector for the changes to take effect.

**Parent topic:** [Using Secure Connectors](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Secure\\_Connector/Adding\\_importing\\_truststore.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Secure_Connector/Adding_importing_truststore.html)

## Installing Vendor Supplied Libraries for Secure Connectors

---

Certain endpoints require additional libraries to be installed before the Secure Connector can communicate with them. This section provides information about using the Web Management Console (WMC) to install these vendor supplied libraries. For a complete list of connectors that require vendor supplied libraries, open the Update Connector Libraries page in WMC.

### About this task

---

If your integration project uses a connector that requires additional libraries, you must install the additional libraries before you deploy the project configuration. Deploying the project configuration before installing the additional libraries generates runtime errors. For a complete list of connectors that require vendor supplied libraries, open the Update Connector Libraries page. See the following procedure.

### Procedure

---

1. Log on to WMC.
2. Select System > Upgrade Connector Libraries .
3. In the Connector column, select the connector for which you want to install additional files.

Any files that have already been installed are displayed in the Installed Files column.

4. Click the plus (+) icon and select the library files to upload. In the appliance, the valid files are .jar and .dll are the valid library file types. The files that you select are displayed in the Files to Add column.
5. Click Update.

The files that display in the Files to Add column are not committed until you click Update. If you click Reset before you click Update, WMC does not add the files you uploaded. If WMC times out before you click Update and commit the added files, repeat the last two steps.

6. In the same environment tab, select: System > Secure Connectors.
7. Click Download Libraries and save the `SecureConnector-Default Environment-libraries.zip` file to your workstation.
8. Uncompress the `SecureConnector-Default Environment-libraries.zip` file and find a `*.tp-1.0.0.jar` for each connector module.
9. Use the .jar files in the `SecureConnector-Default Environment-libraries.zip` to replace the files in the Secure Connector installation directory: lib/plugins.
10. Copy all the remaining .zip files to the following Secure Connector installation directory: lib/thirdparty
11. Restart the Secure Connector by running one of the following files from a command line:
  - o For Windows: `runclient osgi.bat`
  - o For Linux: `runclient osgi.sh`

**Parent topic:** [Using Secure Connectors](#)

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[Feedback](#) | [Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Secure\\_Connector/installing3rdPartyLibrariesSecureConnector.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/ApplianceHelp/Secure_Connector/installing3rdPartyLibrariesSecureConnector.html)

## Downloading and installing the SAP libraries

---

To connect to an SAP system from studio, you must install SAP DLLs and JAR files onto your Windows development machine. You must have the SAP login credentials to enter the SAP Support Portal and download the files.

### About this task

---

To download and install the SAP JAR files and DLLs:

1. Contact SAP Technical Support to obtain the compressed files for the following SAP Components:
  - o **SAP JCo Release 3.0.x - based on the platform on which studio is running.**  
Note: Latest version of JCo jar available: 3.0.14, IDoc version 3.0.12.
2. Uncompress the SAP JCo compressed file:
  - o Double-click the `sapjidoc30P_x-1000xxxx.zip` file.
  - o Use the decompression tool to extract the contents of the compressed file to a temporary directory. This compressed file contains another compressed file `sapjco3- NTintel-3.0.x.zip`. Extract this compressed file also to a temporary directory, for example: `C:\temp\sapjco3-NTintel-3.0.x`. This directory contains the required libraries `sapjco3.jar` and `sapjco3.dll`.
3. Unzip the SAP IDoc JCo compressed file:
  - o Double-click the `sapjidoc30P_x-1000xxxx.zip` file.
  - o Use the decompression tool to extract the contents of the compressed file to a temporary directory, for example, `C:\temp\sapjidoc30P_x-1000xxxx`. This directory contains the required library `sapidoc3.jar`.

### Procedure

---

1. Open studio, select Tools > Install Module Providers.
2. When the Add Providers dialog box is displayed, click the plus (+) button present beneath SAP Connector.

A text field and a Browse button are displayed.

3. Click Browse, and use the browse dialog box to locate and select the `sapjco3.jar` file.
4. Click Open to import the JAR file contents.

5. Click the next available plus (+) button to add the sapidoc3.jar and sapjco3.dll files.
6. When the JAR file is listed in the Add Providers dialog box, click OK.

## Results

---

A prompt is displayed to restart studio and activate the changes.

## What to do next

---

You can now create SAP endpoints and orchestrations.

**Parent topic:** [Using Secure Connectors](#)

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## Uninstalling Secure Connectors (Windows)

---

This topic provides information about uninstalling a Secure Connector from a Windows machine.

### About this task

---

The following procedure allows you to uninstall a Secure Connector and all its configuration settings:

### Procedure

---

1. Verify that another program, such as your browser or command shell, does not have any of the Secure Connector directories open.
2. From the Windows Start button, select All Programs > IBM > Cast Iron Secure Connector <connector\_name> > Stop Secure Connector.
3. From the Windows Start button, select All Programs > IBM > Cast Iron Secure Connector <connector\_name> > Uninstall Secure Connector. The Uninstaller window is displayed.
4. Select Force the deletion of C:\Program Files\IBM\Secure\_Connector \_<connector\_name>.
5. Click Uninstall.
6. When the status bar displays [Finished], you can close the Uninstaller window.

**Parent topic:** [Using Secure Connectors](#)

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## Uninstalling Secure Connectors (Linux)

---

This topic provides information about uninstalling a Secure Connector from a Linux machine.

### Before you begin

---

You must have root level permissions to uninstall the Secure Connector from a Linux machine.

## About this task

---

You can uninstall the Secure Connector by using a graphical interface, issuing a command line command, or running the Javaâ„¢ `uninstall.jar` file. Choose one of the following options to uninstall a Secure Connector and all its configuration settings from a Linux machine.

**Uninstalling the Secure Connector using a graphical interface:** You must have a desktop environment, such as GNOME or KDE, to successfully uninstall the Secure Connector using this procedure.

1. Verify that another program, such as your browser or command shell, does not have any of the Secure Connector directories open.
2. From the application directory, select IBM > Cast Iron Secure Connector `<connector_name>` > Stop Secure Connector.
3. From the application directory, select IBM > Cast Iron Secure Connector `<connector_name>` > Uninstall Secure Connector.

**Uninstalling the Secure Connector from the command prompt:**

1. Verify that another program, such as your browser or command shell, does not have any of the Secure Connector directories open.
2. From the command prompt, issue the `./Uninstaller/uninstall.sh` command.

**Uninstalling the Secure Connector with .jar file.** You must have Java version 1.6 or higher installed to successfully uninstall the Secure Connector using this procedure.

1. Verify that another program, such as your browser or command shell, does not have any of the Secure Connector directories open.
2. From the command prompt, enter the `runclient osgi.sh stop` command.
3. In the directory where you installed the Secure Connector, navigate to the Uninstaller subdirectory to find the `uninstaller.jar` file: `"${JAVA}" -jar "${INSTALL_DIR}/Uninstaller/uninstaller.jar"` where `{JAVA}` is the Java executable and `{INSTALL_DIR}` is the Secure Connector name.  
A dialog box is displayed.
4. Select the Force the Deletionâ€¦ option.
5. Click Uninstall.
6. Click Quit.

## Results

---

The Secure Connector is uninstalled. Configuration settings are retained in the home directory.

**Parent topic:** [Using Secure Connectors](#)

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## Starting and Stopping Secure Connectors

---

Starting and Stopping Secure Connectors topics provide information about starting and stopping Secure Connectors on Windows and Linux machines. For Windows machines, options you chose during installation affect how you can start and stop Secure Connectors. If you installed the Secure Connector as an automatic Windows Service, as recommended, then you can use the Windows Services control panel to stop and start the Secure Connector. If you installed the Secure Connector as a Windows application, then you can start and stop the Secure Connector using Windows Start menu shortcuts or desktop shortcuts. For Linux machines, you can start and stop Secure Connectors by using a graphical interface or by running commands from the command line.

- [Starting and Stopping Secure Connectors on Windows \(Installed as a Windows Service\)](#)  
This topic provides information about starting and stopping Secure Connectors on Windows machines, where you have a Secure Connector that is installed as a Windows Service.
- [Enabling Interactive Mode for Windows Services](#)  
When the Secure Connector is installed as a Windows Service, enable the interactive mode for the service to view system tray icons and command window.
- [Starting and Stopping Secure Connectors on Windows \(Installed as a Windows Application\)](#)  
This topic provides information about starting and stopping Secure Connectors on Windows machines, where you have a Secure Connector that is installed as a Windows application.
- [Starting and Stopping Secure Connectors on Linux](#)  
This topic provides information about starting and stopping Secure Connectors on Linux machines.

**Parent topic:** [Using Secure Connectors](#)

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## Starting and Stopping Secure Connectors on Windows (Installed as a Windows Service)

---

This topic provides information about starting and stopping Secure Connectors on Windows machines, where you have a Secure Connector that is installed as a Windows Service.

### About this task

---

If you installed the Secure Connector as an automatic Windows Service, as recommended, use the Windows Services control panel to stop or restart the Secure Connector.

By default, when a Secure Connector is installed as a Windows Service, the Secure Connector is not configured to interact with the Windows Desktop. However, if the Secure Connector service was installed under a local system account, you can enable an interactive mode that presents system tray icons and a command window when the Secure Connector service is running.

For steps to enable the interactive mode for a Windows service, see [Enabling Interactive Mode for Windows Services](#).

Note: If you use the **Start Secure Connector** Start menu shortcut or desktop shortcut to start a Secure Connector, the Secure Connector starts as a normal application rather than as a service. You must use the Windows Services control panel to start Secure Connectors as a service. You can use either the **Stop Secure Connector** Start menu shortcut or desktop shortcut to stop a Secure Connector.

#### **Starting and stopping Secure Connectors, using the Windows Services control panel:**

### Procedure

---

1. Open the Windows Services window: Start > Control Panel > Administrative Tools > Services.
2. Scroll down the list of services to locate the IBM® Secure Connector service.
3. Right-click on the IBM Secure Connector service and select the appropriate command: Start, Stop, Pause, Resume, or Restart.

**Parent topic:** [Starting and Stopping Secure Connectors](#)

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## Enabling Interactive Mode for Windows Services

---

When the Secure Connector is installed as a Windows Service, enable the interactive mode for the service to view system tray icons and command window.

### About this task

---

By default, when a Secure Connector is installed as a Windows Service, the Secure Connector is not configured to interact with the Windows Desktop. However, if the Secure Connector service was installed under a local system account, you can enable an interactive mode that presents system tray icons and a command window when the Secure Connector service is running.

### Procedure

---

1. Open the Services control panel. For example: Start > Control Panel > Administrative Tools > Services.
2. Select the Cast Iron Secure Connector service.
3. Right-click the service name, and select Properties. The Service Properties window is displayed.
4. Select the Log On tab.
5. Select Local System account and then select Allow service to interact with desktop.
6. Click OK.
7. Click Restart.

### Results

---

When the Cast Iron® Secure Connector service is restarted, system tray icons and a command window are displayed.

Note: You can minimize the command window. However, if you close the command window, the Cast Iron Secure Connector service is stopped and terminated. Closing the command window is the equivalent of stopping the Secure Connector service from the Windows Services control panel.

**Parent topic:** [Starting and Stopping Secure Connectors](#)

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## Starting and Stopping Secure Connectors on Windows (Installed as a Windows Application)

---

This topic provides information about starting and stopping Secure Connectors on Windows machines, where you have a Secure Connector that is installed as a Windows application.

### About this task

---

When the Secure Connector is installed on a Windows machine as a Windows application, rather than a Windows Service, you can start and stop the Secure Connector using Windows Start menu shortcuts or desktop shortcuts.

### Procedure

---

1. Start the Secure Connector from either the Windows Start menu shortcut or desktop shortcut.
  - o From the Windows Start button, select All Programs > IBM > Cast Iron Secure Connector <connector\_name> > Start Secure Connector.

- From the Windows desktop, click the Start Secure Connector shortcut to start the Secure Connector.
- 2. Stop the Secure Connector from either the Windows Start menu shortcut or desktop shortcut.
  - From the Windows Start button, select All Programs > IBM > Cast Iron Secure Connector <connector\_name> > Stop Secure Connector.
  - From the Windows desktop, click the Stop Secure Connector shortcut to stop the Secure Connector.

**Parent topic:** [Starting and Stopping Secure Connectors](#)

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## Starting and Stopping Secure Connectors on Linux

---

This topic provides information about starting and stopping Secure Connectors on Linux machines.

### About this task

---

If you have a desktop environment, such as GNOME or KDE, you can start and stop the Secure Connector using menu shortcuts or desktop shortcuts. You can also start and stop the Secure Connector using the command line.

### Procedure

---

1. Start the Secure Connector from either the menu shortcut, desktop shortcut, or command line. Choose one of the following options:
  - Select <application> > IBMÂ® > Cast IronÂ® Secure Connector <connector\_name> > Start Secure Connector.
  - From the desktop, click the Start Secure Connector shortcut to start the Secure Connector.
  - From the command prompt, enter `runclient osgi.sh start`.
2. Stop the Secure Connector from either the menu shortcut, desktop shortcut, or command line. Choose one of the following options:
  - Select <application> > IBM > Cast Iron Secure Connector <connector\_name> > Stop Secure Connector.
  - From the desktop, click the Stop Secure Connector shortcut to stop the Secure Connector.
  - From the command prompt, enter `runclient osgi.sh stop`.

**Parent topic:** [Starting and Stopping Secure Connectors](#)

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## Upgrading Secure Connectors

---

This topic provides information about upgrading Secure Connectors.

### Procedure

---

1. Create a new Secure Connector.

2. Download the latest version of the Secure Connector installer, based on your operating system. For example, Windows or Linux.
3. On a Windows or Linux machine, launch the Secure Connector installer. The Cast Iron® Secure Connector wizard guides you through the upgrade process.  
Note: If you already have a Secure Connector installation that is higher than or same as the latest version, a warning message states that you have an existing installation and alternatively you can upgrade the existing installation.  
Note: You must stop the Secure Connector (if already started) before upgrading.  
Note: Before you proceed with the Secure Connector upgrade process, ensure that you have:
  - o Stopped the Secure Connector
  - o Taken a manual backup of the certificates (if any) located at <secure\_connector\_install\_path>/etc/security or jre/lib. You may want to replace/add your certificates after upgrade.
4. Click the Upgrade option. The Select the installed path list box is displayed.
5. Select the Secure Connector installed path, if it is displayed in the list box. Else, click Browse button to select the installed path.
6. Click Next, then read and accept the licensing agreement.
7. Click Next. The installation progress is displayed. A message is displayed stating that the installation has been completed successfully. The path to the installer program is also displayed.
8. Click Done.
9. Start the Secure Connector.

**Parent topic:** [Using Secure Connectors](#)

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## Updating Secure Connector Configuration

---

This topic provides information about updating Secure Connector configuration.

### Procedure

---

1. Download the new Secure Connector configuration file. For more information, see [Downloading Secure Connector Configuration Files](#).
2. Launch the Secure Connector Configuration wizard. To launch the wizard:
  - a. Windows machine: Go to Start > All Programs > IBM > Cast Iron Secure Connector <connector\_name> > Secure Connector Configuration.
  - b. Linux machine: Select <application> > IBM > Cast Iron Secure Connector <connector\_name> > Secure Connector Configuration.
3. The Secure Connector configuration wizard guides you through the upgrade process.
4. Click Next. The current Secure Connector Configurations are displayed if the Secure Connector is already configured. If not, browse for the newly downloaded configuration file and click Next.
5. Modify the Secure Connector configuration by completing one of the follow steps:
  - a. Modify the Cloud Gateway, Listen on Port, and Transmit on Port parameters and click Next. Or
  - b. Click the Previous button and select a new Secure Connector file.
    - i. Click Next and verify the configuration settings.
    - ii. Click Next.
6. Specify settings for a proxy server: Proxy Server, Proxy Port, Login ID, Login Password, and Retype Password. These parameters are only required if your network requires that the Secure Connector uses a proxy to connect to the Cast Iron® Cloud Gateway.
7. The Create Vendor Supplied Libraries page is displayed.
8. Click Add and select the library files to upload. In the appliance, the valid files are .jar, .dll, and .so file types. The files that you select are displayed in the Files to Add column.
9. Click Update.

The files that display in the Files to Add column are not committed until you click Update.

10. Click Next. A dialog box is displayed to confirm the changes made, if you have not clicked the Update button. Click Yes to update changes and proceed further. If you click No to go to the next screen without any changes. Click the Cancel button to stay on the same screen.
11. When you click Yes to proceed further, the Vendor JAR created/updated successfully message is displayed.
12. Click OK. A message saying that the installation has completed successfully is displayed.
13. Restart the Secure Connector.

**Parent topic:** [Using Secure Connectors](#)

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## Monitoring Secure Connector

---

You can use the Monitoring tool to check the status of a Secure Connector (SC1) and provide an alternate Toggle Secure Connector (SC2) in case of Secure Connector (SC1) stops working. In case of failure of SC1, specifying SC2 will switch all the projects using SC1 to use SC2 to provide continuous availability of Cast Iron projects.

### Before you begin

---

- Toggle Secure Connector (backup connector) should be running on the same Cast Iron system before starting this tool.
- All the Cast Iron projects using a secure connector, should have Secure Connector Name configuration property as "secure\_connector\_name".

### About this task

---

Use the Monitoring tool to configure and check the status of the Secure Connector.

### Procedure

---

1. Start the executable jar file from SC\_INSTALL\_ROOT/monitor/agent\_monitor.jar by giving the command:

```
java -jar agent_monitor.jar
```

Note: You can copy and run the agent\_monitor.jar on any server machine which has access to Cast Iron system. It will bring up the Secure Connector Monitoring Tool screen once the jar started successfully.

2. In the Secure Connector Monitoring Tool screen specify the following information:
  - a. Specify the Cast Iron Live Hostname or Cast Iron Appliance IP address for the Hostname.
  - b. Specify the Username and Password for authenticating to the appliance.
  - c. Specify the Secure Connector Name (SC1) currently used by the Cast Iron projects and Toggle Secure Connector Name (SC2) which will backup to SC1.
3. Click the Start button to start the monitoring tool.

### Results

---

The Monitoring tool will keep checking the status of SC1 every 30 seconds, and if its status is Stopped, it will switch all Cast Iron projects to SC2. Once it has deployed on projects on SC2, it will keep monitoring the status of SC2 and it will switch it back to SC1 in case SC2 goes down. It goes recursive.

**Parent topic:** [Using Secure Connectors](#)

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## Troubleshooting Secure Connectors

---

This topic provides potential solutions for issues you have with the Secure Connector.

Secure Connector log files are available for review. The Log directory is created after the initial start of the Secure Connector. The Log directory is in the Secure Connector installation directory. For example: C:\Program Files\IBM\Secure\_Connector\_1.development\logs

- **A port contention error occurs.** A port contention error can occur when two Secure Connectors are configured to use the same port and gateway. To resolve the issue, provide unique values for the Gateway, Listen on Port, and Transmit on Port parameters in each Secure Connector configuration file.
- **Unable to run .jar file to uninstall a Secure Connector.** Verify that the Java™ path is specified correctly and that you have Java version 1.6x or higher installed on the machine.

**Parent topic:** [Using Secure Connectors](#)

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## Security

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Security topics provide information about generating and managing certificates, configuring LDAP settings, and configuring Kerberos settings

- [About Certificates](#)  
Certificates enable secure communication between the Integration Appliance and endpoints located in your intranet and extranet. Use the Management Console to manage certificates.
- [Configuring Kerberos](#)
- [Configuring LDAP Mechanism Properties](#)
- [Editing Security Settings](#)
- [Enabling an LDAP Directory Server](#)
- [Exporting Certificates](#)
- [Generating Certificate Signing Requests](#)
- [Generating Self-Signed Certificates](#)
- [Importing Certificates](#)
- [Renaming Certificate Alias](#)
- [Uploading Certificates](#)

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## About Certificates

---

Certificates enable secure communication between the Integration Appliance and endpoints located in your intranet and extranet. Use the Management Console to manage certificates.

From the Certificates page, you can generate, import, and update security certificates and security settings.

The following tables provides definitions for certificate terminology.

Certificate Terminology	Definition
Alias	A string of alphanumeric characters you assign to a KeyStore or TrustStore entry to provide a more user friendly name. Within a KeyStore or TrustStore you can use an alias to refer to the keys and certificates. Note: Aliases are not case sensitive. For example, MyCert and mycert refer to the same entry.
Certificate	A signed credential which identifies an endpoint or organization.
Key Pair	A public key and associated private key.
KeyStore	A Javaâ„¢ data store that houses private keys and certificates used by a Java SSL endpoint. For example, a local Java endpoint supplies a certificate from its KeyStore as a credential to identify itself to a remote SSL endpoint.
PKI	Public Key Infrastructure is a system for managing encryption keys and identity information. The purpose of the system is to provide standards based system for protecting/securing communications over the internet.
Private Key	A key known only to a single endpoint used to encrypt and/or sign data.
Public Key	A key associated with a private key that can be distributed to anyone.
SSL	Secure Sockets Layer enables secure web communications and permits endpoints to optionally authenticate each other.
TrustStore	A Java data store that houses certificate authority signed certificates. For example, a local Java endpoint utilizes a TrustStore to authenticate the identity (certificate) provided to it by a remote SSL endpoint.

**Parent topic:** [Security](#)

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## Configuring Kerberos

---

### About this task

When the Integration Appliance is exchanging data over a non-secure network, the Kerberos protocol allows the Integration Appliance to authenticate the server with which the Integration Appliance is communicating.

### Procedure

1. In the navigation pane, select Security > Kerberos. The Kerberos Configuration page is displayed.
2. Specify the Kerberos Server name.
3. Specify the Kerberos Realm.
4. Click Save.

Clicking Delete clears the settings that you have specified.

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## Configuring LDAP Mechanism Properties

---

### About this task

---

If you selected the Use Secure Connection (SASL) security option while enabling an LDAP Server, you must also specify a mechanism policy and configure the mechanism properties.

LDAP mechanism properties and LDAP mechanism policies are further described in the following tables.

### Procedure

---

1. In the navigation pane, select Security > LDAP. The LDAP Configuration page is displayed.
2. In the Security Options section, select Use Secure Connection (SASL).
3. In the Authentication section, click Advanced Settings. Options for Mechanism Policies and Mechanism Properties display.
4. Select the appropriate options and choose the appropriate value from the drop-down list.

## LDAP Mechanism Properties

---

Mechanism Properties	Description
QOP (Quality of Protection)	<p>Names a property that specifies the quality-of-protection that the LDAP directory server uses. The property contains a comma-separated, ordered list of quality-of-protection values that the client or server supports. The following are valid QOP values:</p> <ul style="list-style-type: none"><li>auth<ul style="list-style-type: none"><li>authentication only</li></ul></li><li>auth-int<ul style="list-style-type: none"><li>authentication plus integrity protection</li></ul></li><li>auth-conf<ul style="list-style-type: none"><li>authentication plus integrity and confidentiality protection</li></ul></li></ul> <p>The order of the list specifies the preference order of the client or server. If you do not specify a value, the default QOP is auth.</p>
Cipher Strength	<p>Names the property that specifies the cipher strength that the LDAP directory server uses. The property contains a comma-separated, ordered list of cipher strength values that the client or server supports. The following are valid cipher strength values:</p> <ul style="list-style-type: none"><li>• low</li><li>• medium</li><li>• high</li></ul> <p>The order of the list specifies the client or server order of preference. An implementation should allow you to configure the meaning of these values. An application might use the Java™ Cryptography Extension (JCE) with JCE-aware mechanisms to control the selection of cipher suites that match the strength values.</p> <p>If you do not specify a value, the default cipher strength is low.</p>

Mechanism Properties	Description
Max Buffer Size	Specifies the maximum size of the receive buffer in bytes. If you do not specify a value, the default size is defined by the mechanism. Valid value range is between 0 and 65536.
Mutual Authentication	Names the property that specifies whether the server must authenticate to the client. The property name contains true, if the server must authenticate the to client and contains false otherwise. By default, this value contains false.

## LDAP Mechanism Policies

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Mechanism Policies	Description
Forward Secrecy	Names the property that specifies whether mechanisms that implement forward secrecy between sessions are required. Forward secrecy means that breaking into one session does not automatically provide information for breaking into future sessions. The property contains true if mechanisms that implement forward secrecy between sessions are required and contains false if such mechanisms are not required. By default, this value contains false.
Client Credentials	Names the property that specifies whether mechanisms that pass client credentials are required. The property contains true if mechanisms that pass client credentials are required and contains false if such mechanisms are not required. By default, this value contains false.
Susceptible to passive attacks	Names the property that specifies whether mechanisms susceptible to simple plain passive attacks, for example: PLAIN, are not permitted. The property contains true if such mechanisms are not permitted and contains false if such mechanisms are permitted. By default, this value contains false.
Susceptible to active attacks	Names the property that specifies whether mechanisms susceptible to active (non-dictionary) attacks are not permitted. The property contains true if mechanisms susceptible to active attacks are not permitted and contains false if such mechanisms are permitted. By default, this value contains false.
Susceptible to dictionary attacks	Names the property that specifies whether mechanisms susceptible to passive dictionary attacks are not permitted. The property contains true if mechanisms susceptible to dictionary attacks are not permitted and contains false if such mechanisms are permitted. By default, this value contains false.
Susceptible to anonymous attacks	Names the property that specifies whether mechanisms that accept anonymous login are not permitted. The property contains true if mechanisms that accept anonymous login are not permitted and contains false if such mechanisms are permitted. By default, this value contains false.

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## Editing Security Settings

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### Procedure

1. In the Settings section, click Edit. The Edit Settings dialog box is displayed.
2. Select the certificate to use with the corresponding category. For example, Client SSL, Server SSL over data NIC, or Server SSL over mgmt NIC.
3. Select the VPeer check box if appropriate.

- Selecting VPeer means that the integration appliance authenticates the identity of the SSL peer using the certificate provided by the peer.
  - When selected for the Client SSL category, the integration appliance authenticates the identity of the SSL server using the certificate sent by the server.
  - When selected for the Server SSL over data NIC category, the integration appliance requires that SSL clients connecting to the integration appliance must send a certificate.
4. Select the VHost check box if appropriate.
    - Selecting VHost means that the integration appliance verifies that the hostname of the server in an SSL session matches the name contained in the server certificate. This check is designed to prevent a man-in-the-middle (MITM) attack and is described in RFC 2818 *HTTP Over TLS Section 3.1 Server Identity*.
    - The VHost selection is only applicable for the Client SSL category.
    - The VHost selection is only applicable when VPeer is also selected.
  5. Select the cipher strength.
    - Standard
    - Strong
  6. Click Save.

**Parent topic:** [Security](#)

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## Enabling an LDAP Directory Server

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### About this task

From the WMC, you can choose to have an LDAP server handle user authentication and authorization. When you enable an LDAP directory server, the authentications and authorizations of the LDAP directory server override any users, groups, or permissions you specified via the WMC, except for the built-in Admin user. Therefore, with the exception of the Admin user, you can authenticate and authorize users and groups via an LDAP directory server or the WMC, but not both. Regardless if you enable LDAP or not, you can update the Admin user password via the CLI.

Note: LDAP users will not be able to access the staging database.

### Procedure

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1. In the navigation pane, select Security > LDAP. The LDAP Configuration page is displayed.
2. Select the Enable LDAP option. If you do not select this option, the Integration Appliance uses the built-in groups and users you defined in the WMC to authenticate and authorize users and their access to the WMC.
3. Specify host information.
  - a. Enter the host name and port number of the LDAP directory server.
  - b. Choose a Base DN (Base Distinguished Name) or click Fetch DNs. The WMC fetches the Base DN of all the Directory Information Trees (DITs) from the LDAP directory server. Select the Base DN of the DIT that contains the users you want to authorize.
4. Choose one of the following security options:
  - **Use Secure Connection (SASL)** - Enables Simple Authentication and Security (SASL) mechanisms supported by the LDAP directory server. This is the most secure option.
  - **Use Simple Authentication** - Enables simple authentications, but does not encrypt credentials.
  - **Anonymous Bind** - Enables anonymous binding to the LDAP directory server. This is the least secure option.
5. If you selected the Use Secure Connection (SASL) security option, specify a mechanism and configure the mechanism properties and mechanism policies.
6. If the LDAP directory server requires authentication for a directory search, specify values for the Principal and Password, which are in the Credentials section. When you select the Composed DN Mode authentication mode, this step is not required.

However, this step might be required to fetch DNs or mechanisms when the LDAP directory server does not allow anonymous searches.

If you do not specify a password, the WMC attempts to make the initial binding into the LDAP server as an anonymous user and the LDAP server ignores the Principal credential you specified.

7. Choose one of the following authentication modes:

- Composed DN Mode
- Searched DN Mode

8. Specify the User Container RDN. The authentication mode you specify determines what value you should specify here.

- If you selected the Composed DN mode, the User Container RDN is composed of one or more attributes from the user DN. Construct the User Container RDN by walking up the tree from the immediate ancestor of the user to the entry just before the base and adding up the RDN of each entry in the path.

For example, if:

User DN = "uid=JohnK,ou=emp,dc=xyz,dc=com"

then

User Container RDN = "ou=emp"

- If you selected the Searched DN mode, the User Container RDN is typically left blank, which causes the LDAP directory server to search the entire DIT starting from the root (Base). Otherwise, the LDAP directory server searches the subtree rooted at the entry having DN = User Container RDN +BaseDN.

9. If you selected the Searched DN Mode, specify the User Search Filter that the LDAP directory server uses to search for the user DN. (required, only if you select the Search DN Mode) This entry accepts LDAP search filter specification and also accepts a user name in the form of \$USERNAME. For example:

- In MSAD, this entry could be "(samAccountName=\$USERNAME)"
- In SunOne, this could be "(uid=\$USERNAME)"

10. Specify the User Principal DN, which specifies the DN of the user that the LDAP directory server binds after the search. You can specify \$USERNAME or \$DN to represent the user name and Distinguished Name. Where \$DN represents (RDN+BaseDN) for the Compose DN Mode and searched DN for Search DN Mode. In most the cases, \$DN is the entry. However, when using SASL in MSAD, you might only need to specify \$USERNAME. For SASL in SunOne, you might only need to specify "dn:\$DN".

11. Specify Group Mapping Information.

- a. Specify the Admin Group Filter.
- b. Specify the Publisher Group Filter.
- c. Specify the Group Filter.

12. Click Save.

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## Exporting Certificates

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### Procedure

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1. In the Key Store section, click an alias. The Certificate Details window displays.
2. Click Export. The Export Certificate dialog box displays.
3. Select a exporting format.
4. Provide a password.
5. Click Export.

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## Generating Certificate Signing Requests

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### Procedure

1. In the Key Store section, click on an alias. The Certificate Details window displays.
2. Click Generate CSR. The Certificate Content window displays.
3. Click Copy. The entire contents of the window is copied.
4. Click Download and specify a location for the download.
5. Click Save. The certificate contents are downloaded to the specified location.

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## Generating Self-Signed Certificates

---

### Procedure

1. In the Key Store section, click Generate. The Generate Self-Signing Certificate dialog box is displayed.
2. Specify values for the following parameters:

Alias  
Common Name (CN)  
Organization (O)  
Organization Unit (OU)  
Country (C)  
State (ST)  
Locale (L)  
Email (EMAILADDRESS)  
OID  
Key Algorithm  
Key Length  
Valid For

3. Click Generate.

### Results

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The self-signed certificate displays in the Key Store table.

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## Importing Certificates

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### About this task

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You can import a certificate or certificate chain into the IBM® WebSphere® Cast Iron® KeyStore. You can also import trusted Certificate Authority certificates (CA Certs) to the TrustStore.

### Procedure

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1. In the Key Store or Trust Store section, click Import. The Import Certificates dialog box is displayed.
2. Enter an alias name. This name is used to identify the imported certificate or certificate chain.
3. Optional: Enter a key password.

The password protects the private key of the key pair associated with the alias. If you do not specify a password, the password defaults to the password protecting the KeyStore.

4. If you are importing a certificate from a trusted site, select the Trusted option.

If you select the Trusted option, the certificate is imported without checking for an existing chain of trust. If you do not select the Trusted option, the KeyStore and TrustStore options are checked to ensure a chain of trust exists for the certificate being imported.

5. Choose to import the content from a file or from content in the clipboard that contains the certificate or certificate chain to be imported.

When importing into the KeyStore, supported formats include: PKCS12. When importing into the TrustStore, supported formats include CER/PEM (RFC 1421), DER and PKCS7.

6. Click Import.

### Results

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The certificate displays in the Certificates page.

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## Renaming Certificate Alias

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### Procedure

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1. In the Certificate page, click an Alias. The Certificate Details dialog box displays.
2. Click Rename.
3. In the Alias field, type in a new alias.
4. Click Apply.

## Results

---

The updated alias displays on the Certificates page.

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## Uploading Certificates

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### Procedure

1. In the Key Store section, click an alias. The Certificate Details window displays.
2. Click Upload. The Update Certificate dialog box displays.
3. If you are uploading a certificate to a trusted site, select the Trusted option.
4. Choose to upload the content from a file or from content in the clipboard.
5. Click Import.

**Parent topic:** [Security](#)

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## Working with Logs

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Working with Logs topics provide information about managing orchestration job logs, specifying system settings, and viewing system logs.

- [About Archived Logs](#)  
The Management Console lists log files that the Integration Appliance has archived. You can download these archived log files.
- [About Archived Logs](#)  
Logs can be archived locally or exported to an FTP server. From the WMC, you can download locally archived logs: Logs > Archive Logs.
- [Purging Orchestration Monitoring Logs](#)  
You can purge and archive orchestration monitoring logs.
- [Specify System Log Settings](#)  
You can specify the level of details that appears in the system logs. The log level you specify affects alerts for notification policies. Alerts are only sent for events that meet or exceed the log level you specify.
- [Viewing System Logs](#)  
You can view system logs from the Management Console and use the system log filters to sort through system log entries.
- [Customizing columns in System log and Job log](#)  
You can customize the columns displayed in the System log and Job log pages, respectively.

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## About Archived Logs

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The Management Console lists log files that the Integration Appliance has archived. You can download these archived log files.

**Parent topic:** [Working with Logs](#)

## Downloading an Archived Log File

---

### Procedure

1. In the navigation pane, select Logs > Archived Logs. Log files for the Integration Appliance display, along with a timestamp of when the log was last modified and details about the log file size.
2. Click Refresh to get the most up-to-date log files.
3. Click a log file to download. A message is displayed.
4. Click Download Now.
5. Choose the Save File option and click OK.

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## About Archived Logs

---

Logs can be archived locally or exported to an FTP server. From the WMC, you can download locally archived logs: Logs > Archive Logs.

You can archive or purge orchestration monitoring logs. When you configure parameters to archive orchestration monitoring log files, the Integration Appliance archives the log files before polling for conditions that trigger the Integration Appliance to purge additional orchestration monitoring data. You can archive orchestration monitoring data to a local disk on the Integration Appliance or export the archives to an FTP server. If you do not configure archive settings, the Integration Appliance purges all orchestration monitoring data that meets the default purging trigger conditions.

You can view archived log files by selecting Logs > Archive Logs in the Navigation page. When you export the logs, the Integration Appliance names exported orchestration monitoring logs using the following convention: orcmon\_export\_<timestamp>.xml.

**Parent topic:** [Working with Logs](#)

## Archiving Orchestration Monitoring Logs Locally

---

### About this task

When you select the Archive Purged Monitor Data to a Local File option and one of the log purging trigger conditions is met, the Integration Appliance exports orchestration monitoring logs to a local disk on the Integration Appliance.

Note: When you archive orchestration monitoring logs locally, you decrease the availability of disk space on the Integration Appliance. As the disk space is filled up, the purging trigger conditions generate archives much quicker.

## Procedure

---

1. From the Navigation pane, select Logs > Job Log. The Results page displays all orchestration monitoring logs.
2. Click Settings. The Job Log Settings dialog is displayed.
3. Click Archive.
4. In the Archive Settings section, select Archive Purged Monitor Data to be a Local File .
5. Select Replace Exported File to replace previously exported orchestration monitoring logs. If you do not select this option, the Integration Appliance cumulatively stores orchestration monitoring logs. This can cause the Integration Appliance to run out of disk space very quickly and prematurely trigger a purge.
6. Click Save.

## Results

---

The Integration Appliance archives Orchestration Monitoring logs locally. You can download locally stored archives by selecting the archive from the Archive list and clicking Download.

# Archiving Orchestration Monitoring Logs to an FTP Server

---

## About this task

---

When you select the Archive Purged Monitor Data to a Local File option and the Transmit Archive to FTP Server option and one of the log purging trigger conditions is met, the Integration Appliance exports orchestration monitoring logs to an FTP server. You can chose to archive all the exported log files on the FTP server or chose to have the latest archive replace the previous archive.

## Procedure

---

1. From the Navigation pane, select Logs > Job Log. The Results page displays all orchestration monitoring logs.
2. Click Settings. The Job Log Settings dialog is displayed.
3. Click Archive.
4. In the Archive Settings section, select Archive Purged Monitor Data to be a Local File .
5. Select Transmit Archive to FTP Server (After a Purge).
6. (Optional) Select Replace Exported File to replace previously exported logs.
7. Specify FTP settings. See the following table below:[Table 1](#) for more information about the FTP settings.
8. Click Save.

# Archiving Utilization Data to an FTP Server

---

## About this task

---

The Integration Appliance collects data about disk usage, memory usage, garbage collection, and the number of running jobs. This resource utilization data can help you analyze the overall health of the runtime and calculate available capacity for additional projects. The Integration Appliance stores this data in a file called maestro.stat and provides an option to archive a snapshot of the data to an FTP server. When you select the appropriate option, all the utilization data available on the Integration Appliance is collected and archived to the specified FTP server.

After an archive file has been created and transmitted to an FTP server, the Integration Appliance continues to aggregate new utilization data to the historic utilization data. Historic utilization data is not purged from the Integration Appliance when an archive is transmitted to an FTP server.

Selecting the Transmit Archive to FTP Server option transmits a snapshot of the utilization data daily at midnight. The following procedure describes how to select the option.

## Procedure

---

1. From the Navigation pane, select Logs > Job Log. The Results page displays all orchestration monitoring logs.
2. Click Settings. The Job Log Settings dialog is displayed.
3. Click Archive.
4. Select Transmit archive utilization data to FTP Server (at midnight) .

5. Specify FTP settings. See the following table below: [Table 1](#) for more information about the FTP settings.
6. Click Save.

## FTP Settings

---

Specifying FTP settings to archive orchestration monitoring logs and utilization data.

**Table 1. Job Log FTP Settings**

Parameter	Description
Host	Specifies the name of the FTP server, where the exported log files are archived.
Port	Specifies the port number of the FTP server, where the exported log files are archived.
Username	Specifies the user ID that the Integration Appliance uses to log in to the FTP server, where the exported log files are archived.
User Password	Specifies the password that the Integration Appliance uses to log in to the FTP server, where the exported log files are archived.
Hide Password Text	If you clear this option, the password you entered displays in plain text and is no longer encrypted.
Directory	Specifies the FTP directory to which the Integration Appliance exports the log file.

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## Purging Orchestration Monitoring Logs

---

You can purge and archive orchestration monitoring logs.

### About this task

When the Integration Appliance purges orchestration monitoring data, it can take a few minutes for the Dashboard to display the updated job counts.

By default, an Integration Appliance purges orchestration monitoring logs older than 30 days when any of the following conditions occurs on the Integration Appliance:

- The amount of available disk space falls below 50%.
- One day has passed since the last purge.
- More than 5,000 orchestration jobs have completed.
- More than 1,000 orchestration jobs have contained an error.

Using the WMC, you can configure the job log purging parameters on the Integration Appliance that determine:

- **Trigger Conditions** - What conditions trigger the Integration Appliance to purge orchestration monitoring data.
- **Frequency** - How often to purge orchestration monitoring data.
- **Job Scope** - What type of orchestration monitoring data to purge.

### Procedure

---

1. From the Navigation pane, select Logs > Job Log. The Results page is displayed.
2. Click Settings. The Job Log Settings dialog box is displayed. By default the Purge page is displayed.
3. Specify the parameters as described in the following section.
4. Click Save.

## Job Log Purging Parameters

---

### Trigger Conditions

---

The amount of free disk space on the Integration Appliance, the time lapse since the last orchestration monitoring logs were purged, the number of completed jobs, and the number of jobs containing errors are all triggers that can initiate the purging or archiving of orchestration monitoring logs. The Integration Appliance uses "OR" logic and purges orchestration monitoring data when any one of the trigger conditions occurs.

Parameter	Description	Default
Available disk space	<p>This trigger fires when the percentage of free disk space is less than the specified value. When this trigger fires, the Integration Appliance purges the orchestration monitoring data as you specify in the Job Scope parameters.</p> <p>If the percentage of free disk space is still short of the percentage you specified, the Integration Appliance purges 50% of the remaining orchestration monitoring data until the value is reached.</p> <p>For example, you specify the following values for purging parameters:</p> <ul style="list-style-type: none"> <li>• Available disk space = 40%</li> <li>• Job status = completed</li> <li>• Jobs older than = 30 days</li> </ul> <p>If only 10% of the Integration Appliance disk is free, the Available disk space trigger fires and the Integration Appliance purges all completed jobs that are older than 30 days. However, purging this data only frees 10% of the disk space. Since the minimum amount of free disk space is still not satisfied, the Integration Appliance purges an additional 50% of the remaining orchestration monitoring data. The Integration Appliance continues to purge the remaining orchestration monitoring data by 50%, until the minimum available disk space is greater than or equal to the specified value.</p> <p>You can specify a value between 1-100 percent, any value outside a 40-75 percent range results in the Integration Appliance using the default value of 50%.</p> <p>Note: This is a required parameter.</p>	50%
Schedule	<p>This trigger fires when the period since the last purge is greater than the specified day, hours, minutes value.</p> <p>You can more precisely schedule a purge by selecting the Fixed option. When you select the Schedule Fixed option, the schedule you specify overrides the day, hours, minutes value specified since last purge.</p> <p>To schedule a purge:</p> <ol style="list-style-type: none"> <li>1. Select the Fixed option.</li> <li>2. Specify the number of days, weeks, or months.</li> <li>3. In the list, qualify the value by choosing Days, Weeks, or Months.</li> <li>4. Specify the start date.</li> </ol>	1 day
Completed job count	<p>This trigger fires when the number of completed jobs is greater than the specified value. This parameter must be a positive integer value.</p> <p>Note: After the Integration Appliance purges the jobs, the job count is no longer visible from the WMC.</p>	5,000 jobs

Parameter	Description	Default
Errored job count	<p>This trigger fires when the number of jobs containing errors is greater than the specified value. Errored job count includes any orchestration job in the following states: unknown, cancelled, terminated, or errored. This parameter must be a positive integer value.</p> <p>Note: After the Integration Appliance purges the jobs, the job count is no longer visible from the WMC.</p>	1,000 jobs

## Frequency

---

The frequency determines the interval at which the Integration Appliance checks the set of defined triggers for an actionable condition. You can specify the frequency interval in increments of hours, minutes, and seconds.

By default, this parameter is set to 10 seconds.

## Job Scope

---

Along with specifying trigger conditions and frequency, you must also specify the type of orchestration job data you want to purge. The Integration Appliance uses the values you specify for the Job Status AND the Jobs Older Than parameters OR the values you specify for Job Status AND Jobs Older Than the Most Recent parameters to determine when the Integration Appliance purges data.

Parameter	Description	Default
Job status	This parameter specifies the type of orchestration jobs that the Integration Appliance purges. By default, this parameter is set to ANY, which purges completed and jobs containing errors. You can choose to purge only the completed jobs by specifying COMPLETED.	Any
Jobs older than	This parameter specifies the minimum age of orchestration jobs to purge. The Integration Appliance purges anything older than the amount of time you specify. You can specify the age of an orchestration job in months, days, hours, and minutes.	7 days
Jobs older than the most recent	This parameter specifies the number of most recent jobs that the orchestration job must be older than before the Integration Appliance purges data.	1,000 jobs

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## Specify System Log Settings

---

You can specify the level of details that appears in the system logs. The log level you specify affects alerts for notification policies. Alerts are only sent for events that meet or exceed the log level you specify.

### About this task

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The system log levels are shown in the following table. The Description column provides a description of each level and explains how it corresponds to the Cast Iron Management API log level.

Severity	Description
INFO	Informational messages. (Corresponds the Cast Iron Management API "INFO" log level).
WARNING	Warning messages. (Corresponds to the Cast Iron Management API "WARNING" log level).
ERROR	Serious errors that may need user attention. (Corresponds to the Cast Iron Management API "SEVERE" log level).
CRITICAL	Critical errors requiring user or administrator attention. (Corresponds to the Cast Iron Management API "FATAL" log level).
FINEST	Retrieves all logs at level above FINEST. (Corresponds to the Cast Iron Management API "ALL" log level).

Note: In certain cases, log levels set in the WMC override settings in the Cast Iron Management API. For example, if the WMC logging level for a component is set to FINEST, logs retrieved by the Cast Iron Management API are also set at the FINEST level. Additionally, if the WMC system logging level is set to INFO, logs retrieved by the Cast Iron Management API are also set at INFO.

Note: If you do not receive notifications for events, it might be that you do not have the system log level set high enough to produce entries that would trigger a notification.

## Procedure

1. In the Navigation pane, select Logs > System Log. The System Log page is displayed.
2. Click Settings. The System Log Settings dialog box is displayed.
3. From the list, select a log level for each system.
4. Click Save.

## Results

A confirmation message is displayed. The system log logs all events that occur at the level you specified or higher for the specific system. For example, if you chose the Error level for Deployment, all events that were Error or Critical level in the Deployment system are logged.

**Parent topic:** [Working with Logs](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/AppplianceHelp/Working\\_with\\_Logs/specifyingSystemLogSettings.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.appliance.doc/AppplianceHelp/Working_with_Logs/specifyingSystemLogSettings.html)

## Viewing System Logs

You can view system logs from the Management Console and use the system log filters to sort through system log entries.

## About this task

When you upgrade, the Management Console does not persist system logs. To retain system log information, export system logs before you upgrade.

Note: The Management Console displays a maximum of 99,999 system log entries. When the number of system log entries exceeds 99,999, the oldest log entry is deleted from the system log.

## Procedure

1. From the navigation pane, select Logs > System Log. The System Log page is displayed.
2. Choose the filter values from the lists at the top of the System Log page. You can filter the log entries according to the level of severity for the event, the environment system that generated the log event, dates, and resolution state. The filters use AND logic.

## System Log Content

---

The system log provides the following information:

System Log Content	Description
Level	Identifies the level of severity of the log event: <ul style="list-style-type: none"><li>• Critical</li><li>• Error</li><li>• Warning</li><li>• Info</li></ul>
System	Identifies the system where the log event occurred: <ul style="list-style-type: none"><li>• Hardware</li><li>• Resources</li><li>• Network</li><li>• Security</li><li>• Orchestration</li><li>• Deployment</li></ul>
Message	Text messages that provides details about the log event.
Job	When available displays Job ID information for log events that occur in the Orchestration system.
When	Records the time when the log event occurred.
Resolved On	Provides a time stamp of when you resolved a log event.
Resolved By	Identifies which user resolved a log event.
Resolved	Select this checkbox to acknowledge that you have resolved a log event. When a user resolves a log event, a time stamp documents the date and time the issue was resolved. Information about the user who resolved the log event is tracked in the Resolved By column. You can resolve all the system log issues, by clicking Resolve All. Clear the checkbox next to any log events that are not resolved and the Resolved On and Resolved By values are cleared.

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## Customizing columns in System log and Job log

---

You can customize the columns displayed in the System log and Job log pages, respectively.

### About this task

---

You can customize the columns to be displayed in the System Log and Job Log pages by editing the column display settings. To customize the log page columns, complete the following steps:

### Procedure

---

1. From the navigation pane, select Logs > System Log or Job Log. The System Log page or the Job Log page is displayed.
2. Click Edit Columns. The Display Columns window is displayed.
3. Select the columns that need to be displayed on the System Log or Job Log page. By default, all the columns are selected in the Display Columns window.
4. Click Save. Only those columns selected by you will be displayed in the System Log or Job Log page.

**Parent topic:** [Working with Logs](#)

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## Managing Appliances

---

You can now manage other appliances from the Web Management Console. This feature is helpful when you have multiple appliances; and you can manage these appliances from a single console.

One appliance is designated as the master appliance, which is used to manage other appliances.

The following features are available as part of managing appliances:

- Appliances can be registered and unregistered with the master appliance.
- Resource utilization details of each of the appliances can be viewed from the master appliance. For more information about the Resource Utilization Graph, see [About the Resource Utilization Graph](#).
- Projects that are published, and the status of each project/orchestration on each of the appliances can be viewed from the master appliance.
- Upgrade of each of the registered appliances can be performed from the master appliance.
- Supports both physical and virtual appliances.
- Supports Cast Iron® version 7.0 and earlier versions (6.0.0.x, 6.1.x.x, 6.3.x.x, 6.4.x.x) for managing and monitoring. The earlier version of Cast Iron must be on the required patch level for using this feature.
- Users of the master appliance must have administrator privileges to use this feature.
- This feature is also available when the appliance is configured with high availability.
- [Registering, editing, and unregistering appliances](#)
- [Upgrading Cast Iron appliance](#)

This feature is used to upgrade the Cast Iron appliance by using the upgrade files `vcrypt2` and `scrypt2` files. The upgrade files are obtained as a part of Cast Iron software or from Fix Central depending on the version (FixPacks/patch/major release) of the appliance.

- [Running commands](#)
- [Managing Project Configurations](#)

The managing multiple appliances feature allow you to manage the life cycle of projects (start, stop, delete, and clone projects) present in the registered remote appliances. You can modify the life cycle of the projects running on different appliances through the single master appliance. The life cycle includes stop, start, clone, resume, pause, and undeploy. The list of registered appliances are displayed in the appliance filter through which you can select the appliance and modify the life cycle of the projects in the selected appliance.

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# Registering, editing, and unregistering appliances

---

## About this task

---

To register a new appliance, complete the following steps:

## Procedure

---

1. Log on to the Web Management Console as an administrator.
2. Select Manage > Appliances.
3. Click Register to register a new appliance. The Register New Appliance window is displayed.
4. In the Register New Appliance window, complete the following details:
  - a. Display Name - Specify a display name that can be used to identify the remote appliance.
  - b. Host Name - Specify the host name or IP address of the remote appliance that you want to register.
  - c. User Name - Specify the user name, with administrator privileges, to communicate with the remote appliance.
  - d. Password - Specify the password for the user name.
  - e. Optional: Description - Specify a brief description for this appliance.
  - f. LDAP - Select this option if the remote appliance is configured for LDAP. Also, provide the LDAP credentials that are used for connecting to the appliance, in the User Name and Password fields.
  - g. Enabled - Select this option if you want to enable the appliance for managing and monitoring. If disabled, the data will not be displayed for this appliance.
5. Click Save.

Note:

- o An appliance, which is already registered to a master cannot be made as a master appliance.
- o You cannot register an appliance, which is already a master to another master appliance.
- o You can register an appliance with multiple master appliances.
- o You can register the master appliance to itself for managing and monitoring.

Note:

- o A user with the name `masteradmin4ma` is created in the master appliance that indicates that the current appliance is a master appliance.
- o A user with the name `slaveadmin4ma` is created in the appliances that are registered in the master appliance.
- o Both these users must not be deleted unless you want to unregister the appliance from the master appliance.

## Results

---

A confirmation message is displayed. A new appliance is registered. When the registration is successful, the version of the appliance and the type (physical/virtual) is displayed.

**Parent topic:** [Managing Appliances](#)

## Editing the registered appliance details

---

### About this task

When you click the display name of any of the registered appliances, you can edit the appliance details in the Edit Appliance Details dialog. You can edit the following fields:

- Display Name
- User Name
- Password
- Description
- LDAP
- Enabled

## Unregistering an appliance

---

## Procedure

1. From the list of registered appliances, select the appliances to be unregistered.
2. Click the Unregister button. The Delete Appliances confirmation message is displayed.
3. Click Yes to unregister the appliance.

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## Upgrading Cast Iron appliance

---

This feature is used to upgrade the Cast Iron® appliance by using the upgrade files `vcrypt2` and `scrypt2` files. The upgrade files are obtained as a part of Cast Iron software or from Fix Central depending on the version (FixPacks/patch/major release) of the appliance.

### About this task

---

To upgrade remote appliances, complete the following steps:

### Procedure

---

1. Copy the `vcrypt2` and/or `scrypt2` file to the workstation from where you can access the appliance from Web Management Console.
2. In WMC, log on to the Integration Appliance and go to Manage > Appliances.
3. Select the appliances that you want to upgrade, from the list of registered appliances.
4. Click the Upgrade Operating System link. The Upgrade Appliances Operating System Wizard is displayed.
5. Browse the `.vcrypt2` file in the Virtual appliance Upgrade File field, to upgrade the virtual appliance.
6. Browse the `.scrypt2` file in the Physical appliance Upgrade File field, to upgrade the physical appliance.
7. Click Upgrade. All the selected appliances will be upgraded one after the other sequentially.

### Results

---

The results of the upgrade are displayed after all the appliance upgrade is complete. The appliance version is also updated in the registered list of appliances, after the data gets updated.

Note:

- Before making changes like Upgrade/Reboot of appliance, please stop all projects in the runtime. After appliance comes back, starts the projects one-by-one.
- If the master appliance is a part of the upgrade list, it will be upgraded only after the upgrade of the other appliances are complete.
- When the files for both physical appliance and virtual appliance, `scrypt2` and `vcrypt2`, are browsed, upgrade is based on the type information (physical or virtual) available for the appliance in the table. If the type information is not available (earlier version without an interim fix), then these appliances are skipped from being upgraded.
- When only one file is browsed, that file is used as an input to upgrade all selected appliances, including appliances, which do not have type information (represented by -).

**Parent topic:** [Managing Appliances](#)

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# Running commands

---

## About this task

---

With the help of commands you can manage the operation on a remote Integration Appliance. To run commands on the appliance, complete the following steps:

## Procedure

---

1. Log on to the Web Management Console as an administrator.
2. Select Manage > Commands.
3. Select one of the following commands listed under Execute.

Table 1. Description of commands

Commands	Description
Remove job history	Removes all job records. This is equivalent to the CLI command <code>system clean orchmon</code> .
Remove projects and configurations	Removes all projects, orchestrations, and project configurations. This is equivalent to the CLI command <code>system clean deploy</code> .
Remove all jobs in progress	Removes the currently running project data. This is equivalent to the CLI command <code>system clean running</code> .
Restart	Stops and restarts the Integration Appliance run time. This is equivalent to the CLI command <code>system restart</code> .
Reboot	Shuts down all services, then reboots the Integration Appliance. This is equivalent to the CLI command <code>system reboot</code> .

4. Select the appliance from the list of registered and active appliances and click Submit to run the command on the chosen appliance.

**Parent topic:** [Managing Appliances](#)

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# Managing Project Configurations

---

The managing multiple appliances feature allow you to manage the life cycle of projects (start, stop, delete, and clone projects) present in the registered remote appliances. You can modify the life cycle of the projects running on different appliances through the single master appliance. The life cycle includes stop, start, clone, resume, pause, and undeploy. The list of registered appliances are displayed in the appliance filter through which you can select the appliance and modify the life cycle of the projects in the selected appliance.

## Before you begin

---

You must have Administrator privileges or be the publisher of a project to manage project configurations on remote appliances

## About this task

---

To run, clone, undeploy, stop, pause, or delete project configurations on remote appliances, complete the following steps:

## Procedure

---

1. From the Navigation pane, select Manage > Configurations. The Project Configurations page is displayed.

2. Locate the project configuration you want to manage.

3. Click the following icons as per your requirement:

- o - to clone a project configuration.
- o - to run a project configuration.
- o - to delete a project configuration.
- o - to stop a project configuration.
- o - to undeploy a project configuration.
- o - to pause a project configuration.

**Parent topic:** [Managing Appliances](#)

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## About the Command Line Interface

---

The Cast Iron® Command Line Interface (CLI) is available to administrators to manage the Integration Appliance and to maintain and update its configuration information.

The CLI is preinstalled on the Integration Appliance and is ready to respond to the commands described in this documentation.

Note: The CLI is case sensitive. In general, you must enter commands and keywords using lowercase characters.

Only a user logged in as an administrator can use the CLI. More than one administrator can be logged in to an Integration Appliance at the same time.

### Logging into the CLI

---

You can log in to the CLI on the Integration Appliance through a secure shell (SSH) session, terminal emulation, or telnet. By default, secure management is enabled on the Integration Appliance and you must use secure connections to access the Integration Appliance. Secure connections use the default host key provided with the Integration Appliance at installation.

When using an SSH client or a telnet client to log in to the CLI, the 5th consecutive log-in failure (regardless of which user or any span of time) triggers a lock-out. The lock-out is characterized by a limit of one log in attempt per minute without regard for the user. A successful log-in by any user resets the log-in failure count and ends the lock-out.

### Logging out of the CLI

---

At the command prompt, use the exit command to log out of the CLI. This also closes the terminal emulation or telnet session connection.

### Viewing CLI help

---

In the CLI, you can view a list of command categories by typing help or ?. To view syntax help for the commands in a specific category, enter *Category* help. For example, net help or net ? lists syntax information for each network command.

Tab completion also guides you through the CLI syntax. From the CLI, you can enter a partial command and press the Tab key. Pressing the Tab key completes the command or provides a list of options to complete the command syntax.

Note: Tab completion is sensitive to spaces in the CLI syntax. For example, typing system show in the CLI and then pressing the Tab key appears to have no results. Add a space after show and press the Tab key to view valid command parameters.

### Command conventions

---

The following conventions are used to illustrate command syntax rules:

Table 1.

Convention	Description
keyword <value>	Most command parameters combine a keyword and a value. Some parameters might not require a value.
<value>	Values for parameters are enclosed in angle brackets. In many cases, the text shown indicates the type of information you supply, such as <hostname>. Values may be explicit, such as <yes>.
[x]	Optional parameters are enclosed in brackets.
{x y z}	Groups of mandatory parameters are enclosed in braces.
x / y / z	Choices are separated by bars, select only one.
x...	Parameters that may occur more than once are followed by an ellipse.

- [Logging into the CLI with an secure shell session connection](#)

By default, secure management is enabled on the Integration Appliance and you must use secure connections to access the Integration Appliance. Secure connections use the default host key provided with the Integration Appliance at installation. You can log in to the CLI on the Integration Appliance by using a secure shell session (SSH).

- [Logging into the CLI with a Serial Connection](#)

A serial connection allows you to monitor and issue commands against an Integration Appliance from an ASCII terminal or PC running terminal emulation software. To establish a serial connection:

- [Logging into the CLI with a telnet connection](#)

When secure management access is disabled for the Integration Appliance, you can connect to the Integration Appliance via the network through a telnet session.

- [Command Line Interface modes](#)

The mode of an Integration Appliance determines the type of Command Line Interface (CLI) commands that you can use.

- [Command Line Interface commands](#)

A list of the various command categories available from the Command Line Interface (CLI), and describes the purpose of each command category:

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## Logging into the CLI with an secure shell session connection

By default, secure management is enabled on the Integration Appliance and you must use secure connections to access the Integration Appliance. Secure connections use the default host key provided with the Integration Appliance at installation. You can log in to the CLI on the Integration Appliance by using a secure shell session (SSH).

### Procedure

1. In Windows, start an application, for example PuTTY, that performs SSH connections.
2. Enter the *appliance-host-name*.
3. If needed, select SSH as the connection protocol or set other connection parameters offered by the application.
4. Initiate® the connection. The login prompt is displayed at first access.
5. Log in to the Integration Appliance with a username and password, which have administrative privileges. The default username and password are:
  - o Login: admin
  - o Password: !n0r1t5@C

### Results

When you log in, the prompt changes to the host name of the Integration Appliance.

If you have not selected a hostname, the prompt defaults to the IP address of the Integration Appliance.

**Parent topic:** [About the Command Line Interface](#)

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## Logging into the CLI with a Serial Connection

---

A serial connection allows you to monitor and issue commands against an Integration Appliance from an ASCII terminal or PC running terminal emulation software. To establish a serial connection:

### Procedure

---

1. Connect a console or laptop computer to an Integration Appliance with a serial cable. The serial connection must be between an ASCII terminal or a PC running terminal emulation software to the serial port on the Integration Appliance.
2. Use the included serial cable to connect the terminal or PC to the Serial connector on the Integration Appliance. If the terminal or PC does not have a serial port and has only a USB port, then use a USB-to-serial converter cable (not included).
3. Configure the terminal or PC for standard 9600 8N1 and no flow control operation. 8N1 is a notation for a serial configuration in asynchronous mode, where there are eight (8) data bits, no (N) parity bit, and one (1) stop bit. The terminal emulation suggested for the terminal or PC is VT100.

### Results

---

When you log in to the Integration Appliance, the prompt changes to the host name of the Integration Appliance.

If you have not selected a hostname, the prompt defaults to the IP address of the Integration Appliance.

**Parent topic:** [About the Command Line Interface](#)

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## Logging into the CLI with a telnet connection

---

When secure management access is disabled for the Integration Appliance, you can connect to the Integration Appliance via the network through a telnet session.

### About this task

---

Note: By default, secure management access is enabled for the Integration Appliance; therefore, you will not be able to connect to the Integration Appliance using a telnet connection. See the mgmt secure command for more information about enabling and disabling secure management access.

### Procedure

---

1. In Windows, select Start > Run.
2. Enter `telnet appliance-host-name`. The login prompt is displayed at first access.

3. Log in to the Integration Appliance with a username and password, which have administrative privileges. The default username and password are:
  - o Login: admin
  - o Password: !n0r1t5@C

## Results

---

When you log in, the prompt changes to the host name of the Integration Appliance.

If you have not selected a hostname, the prompt defaults to the IP address of the Integration Appliance.

**Parent topic:** [About the Command Line Interface](#)

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## Command Line Interface modes

---

The mode of an Integration Appliance determines the type of Command Line Interface (CLI) commands that you can use.

An Integration Appliance can be in one of the following modes:

Active

An Integration Appliance in an high availability (HA) pair that is actively processing data is in the Active mode. You can run all CLI commands in this mode. The active Integration Appliance can be in one of the following states:

- Active 1 - The active Integration Appliance is not communicating with its HA peer. If the peer Integration Appliance is rebooting or the R1 and R2 cables are disconnected, this status can occur.
- Active 2 - The active Integration Appliance is communicating with its HA peer.

Idle

An Integration Appliance enters the Idle mode when an error that requires user action occurs. This state indicates that the non-active Integration Appliance is unable to be in either the Active or Standby mode. Only Integration Appliances that are part of an HA pair enter the Idle mode. You can run diagnet, ha, netspect, and system commands in this mode.

Standalone

A single Integration Appliance that processes all messages. A standalone Integration Appliance cannot be part of an HA pair. In this mode, you can run all commands except the commands associated with an HA pair.

Standby

An Integration Appliance in an HA pair that monitors the processing of the Active Integration Appliance runs in Standby mode. The Integration Appliance running in Standby mode stays in sync with the Integration Appliance running in the Active mode, ready to take over processing if the Active Integration Appliance goes down. You can run ha and system commands in this mode.

Unknown

In an HA pair, when an active Integration Appliance does not know the status of the standby Integration Appliance.

## Typical HA pair mode combinations

---

When working with an HA pair, the following mode combinations are typical:

- ACTIVE\_2 and STANDBY - The active machine is communicating with its peer and vice versa. The pair is only highly available after the standby peer has synchronized all the data from the active peer.
- ACTIVE\_2 and IDLE - The active machine has been disconnected from the peer machine most likely as the result of a user issuing the ha disconnect command. Issue the ha connect command to restore the HA pair.
- ACTIVE\_1 and UNKNOWN - The active machine is not communicating with its peer most likely because the peer is rebooting, powered down, or the cables are disconnected.

**Parent topic:** [About the Command Line Interface](#)

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## Command Line Interface commands

---

A list of the various command categories available from the Command Line Interface (CLI), and describes the purpose of each command category:

Table 1.

Command Category	Description
Auth Commands	Authorization commands allow you to manage user accounts.
Config Commands	Configuration commands allow you to manage both management and integration configuration for the Integration Appliance.
Debug Commands	Debugging commands allow you to view queues and process stacks.
HA Commands	High availability management commands. These commands are only available with an Integration Appliance high availability (HA) pair.
Mgmt Commands	Management commands allow you to enable and manage security settings.
Net Commands	Network commands allow you to manage network configuration.
Netspect Commands	Network introspection commands allow you to manage network configurations and query the network for DHCP server, DNS server, gateway, and route information.
Stat Commands	Status commands allow you to view Integration Appliance status.
System Commands	System commands allow you to manage the operation of the Integration Appliance, which includes managing licenses for the Integration Appliance and connectors.
Time Commands	Time commands allow you to set or synchronize the date and time on the Integration Appliance.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/CLI\\_commands.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/CLI_commands.html)

## Authorization commands

---

Authorization commands allow you to manage user accounts.

- [The auth set user command](#)

The auth set user command sets the password for a user. Users can change their own password using the Web Management

Console (WMC), or have the administrator change their password. The administrator can use either the WMC, or this command. The Integration Appliance does not require the administrator to know a user's old password to update the user's password.

- [The auth set recovery command](#)

The auth set recovery command allows the admin password to be reset from the serial console for the IBM® DataPower® Cast Iron® Appliance. The default is on.

- [The auth show recovery command](#)

The auth show recovery command shows whether recovery is on or off. In the on state, the admin password can be reset from the serial console for the IBM DataPower Cast Iron Appliance.

---

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## The auth set user command

---

The auth set user command sets the password for a user. Users can change their own password using the Web Management Console (WMC), or have the administrator change their password. The administrator can use either the WMC, or this command. The Integration Appliance does not require the administrator to know a user's old password to update the user's password.

When you enable an LDAP directory server to manage authorization and authentication for users and groups, this command can only be used to change admin's password.

### Syntax

---

`auth set user <user>`

**Parent topic:** [Authorization commands](#)

---

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## The auth set recovery command

---

The auth set recovery command allows the admin password to be reset from the serial console for the IBM® DataPower® Cast Iron® Appliance. The default is on.

If the option is enabled, you can type `resetpass` for the username at the serial login and any non-empty password. Immediately after you login, you will be asked to verify physical access to the machine. To verify that you have physical access to the appliance, you will be asked to unplug and replug the ethernet cable into the MGMT port of the appliance. This verifies that no one is accessing the serial console over a remote port replicator. If you do not have physical access to the appliance, you should set the recovery option to off.

### Syntax

---

`auth set recovery <on|off>`

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## The auth show recovery command

---

The auth show recovery command shows whether recovery is on or off. In the on state, the admin password can be reset from the serial console for the IBM® DataPower® Cast Iron® Appliance.

If the option is enabled, you can type `resetpass` for the username at the serial login and any non-empty password. Immediately after you login, you will be asked to verify physical access to the machine. To verify that you have physical access to the appliance, you will be asked to unplug and replug the Ethernet cable into the MGMT port of the appliance. This verifies that no one is accessing the serial console over a remote port replicator. If you do not have physical access to the appliance, you should set the recovery option to off using the auth set recovery command.

### Syntax

---

`auth show recovery`

**Parent topic:** [Authorization commands](#)

---

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## Configuration commands

---

Configuration commands allow you to manage both management and integration configuration for the Integration Appliance.

- [The config load command](#)  
The config load command loads a management configuration file from an FTP or SFTP server. After the configuration file is loaded on the Integration Appliance, the Integration Appliance automatically reboots.
- [The config save command](#)  
The config save command saves a management configuration file to an FTP or SFTP server.

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/CLI\\_config\\_commands.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/CLI_config_commands.html)

## The config load command

---

The config load command loads a management configuration file from an FTP or SFTP server. After the configuration file is loaded on the Integration Appliance, the Integration Appliance automatically reboots.

Do not use reserved words in the user name, host name, or file name. Reserved words include: `ftp`, `sftp`, `ibm`, `port`, `user`, and `file`.  
Note: When using SFTP, you must specify a user name. Anonymous logins are not allowed with SFTP.

## FTP Syntax

---

```
config load system ftp <host> [port <number>] [user <username>] file [<path>/]<filename>
```

## SFTP Syntax

---

```
config load system sftp <host> [port <number>] user <username> file [<path>/]<filename>
```

**Parent topic:** Configuration commands

---

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## The config save command

---

The config save command saves a management configuration file to an FTP or SFTP server.

Note: Do not use reserved words in the user name, host name, or file name. Reserved words include: ftp, sftp, ibm, port, user, and file.

## FTP Syntax

---

When saving the configuration file to an FTP server, the Integration Appliance uses anonymous if you omit the user name.

```
config save system ftp <host> [port <number>] [user <username>] file [<path>/]<filename>
```

**Example:** Saves the current system configuration as old\_sys\_config.cfg to the FTP server running on host tern. The FTP user's login name is Joe.

```
config save system ftp tern user joe file old_sys_config.cfg
```

## SFTP Syntax

---

When saving the configuration file to an SFTP server, you must specify a user name. Anonymous logins are not allowed with SFTP.

```
config save system sftp <host> [port <number>] user <username> file [<path>/]<filename>
```

**Parent topic:** Configuration commands

---

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## Debugging commands

---

Debugging commands allow you to view queues and process stacks.

- [The debug postmortem export command](#)

The debug postmortem export command exports the postmortem archive to the FTP or SFTP Server you specify.

- [The debug postmortem generate all command](#)

The debug postmortem generate all command generates an archive of information gathered from Integration Appliance logs, orchestration logs, and transaction stores, that can help debug an Integration Appliance issue.

- [The debug postmortem generate full logs command](#)

The debug postmortem generate full logs command generates a postmortem archive of all the Integration Appliance logs,

which includes new logs in addition to archived logs, and possibly several stacks that are generated by previously running the debug show stack command.

- [The debug postmortem generate new logs command](#)

The debug postmortem generate new logs command generates a postmortem archive of all the latest Integration Appliance logs and possibly several stacks that are generated by previously running the debug show stack command.

- [The debug postmortem generate store command](#)

The debug postmortem generate store command is similar to the debug postmortem generate all command, except that the Integration Appliance only generates a postmortem archive of all the Integration Appliance logs and the data in the transactional store.

- [The debug show stacks command](#)

The debug show stacks command displays current runtime stack traces.

- [The debug system command](#)

The debug system command allows you to start and stop the Integration Appliance runtime. When you issue the debug system stop command, all running orchestration jobs are cancelled and the Integration Appliance does not process any new orchestration jobs..

- [The debug tail file command](#)

The debug tail file command displays log file contents as they are added to the log.

- [The debug top command](#)

The debug top file command dynamically displays process status.

- [The debug job command](#)

The debug job command allows you to capture the instruction set and log of a running job.

---

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## The debug postmortem export command

---

The debug postmortem export command exports the postmortem archive to the FTP or SFTP Server you specify.

The Integration Appliance does not require that you specify an export file name; however, as a best practice, you should include the Integration Appliance serial number, date, and timestamp. If you do not specify an export file name, the Integration Appliance exports a file named postmortem.tar.gz.

Note: Do not use reserved words in the user name, host name, or file name. Reserved words include: ftp, sftp, postmortem, debug, export, ibm, port, user, and file.

### FTP Syntax

---

```
debug postmortem export ftp <hostname> [port <number>] [user <user>] [file <filename> ]  
where:
```

Table 1.

Option	Description
<i>hostname</i>	Specifies the name of the FTP Server.
<i>number</i>	Specifies the port number to use to connect to the FTP Server.
<i>user</i>	Specifies the username used to login to the FTP Server.
<i>filename</i>	Specifies the name of the file storing the postmortem archive.

User Input:

- debug postmortem export ftp 192.168.1.2 user user1 file logs/B2XXW56\_04152005\_172341.tgz
- debug postmortem export ftp ftpserver.yourcompany.com user user1 file logs/B2XXW56\_04152005\_172341.tgz

### SFTP Syntax

---

To export the postmortem using SSH File Transfer Protocol, use the following SFTP syntax.

Note: When exporting a postmortem file to an SFTP server, you must specify a user name. Anonymous logins are not allowed with SFTP.

```
debug postmortem export sftp <hostname> [port <number>] user <user> [file <filename> ]  
where:
```

Table 2.

Option	Description
<i>hostname</i>	Specifies the name of the SFTP Server.
<i>number</i>	Specifies the port number to use to connect to the SFTP Server.
<i>user</i>	Specifies the username used to login to the SFTP Server.
<i>filename</i>	Specifies the name of the file storing the postmortem archive.

User Input:

- debug postmortem export sftp 192.168.1.2 user user1 file logs/B2XXW56\_04152005\_172341.tgz
- debug postmortem export sftp ftpserver.yourcompany.com user user1 file logs/B2XXW56\_04152005\_172341.tgz

## Exporting Files to IBM Support

---

Exports a postmortem file to IBM Support.

```
debug postmortem export ibm pmr <pmrnumber>  
where :
```

- pmrnumber - PMR number open with IBM Support. For example, debug postmortem export ibm pmr 55555.555.555

**Parent topic:** [Debugging commands](#)

---

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## The debug postmortem generate all command

---

The debug postmortem generate all command generates an archive of information gathered from Integration Appliance logs, orchestration logs, and transaction stores, that can help debug an Integration Appliance issue.

The postmortem archive remains on the Integration Appliance until you reissue the command. When you issue this command, the Integration Appliance generates a new archive that overwrites the previous postmortem archive.

Issue this command before rebooting the Integration Appliance and calling technical support.

## Syntax

---

```
debug postmortem generate all
```

**Parent topic:** [Debugging commands](#)

---

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## The debug postmortem generate full logs command

---

The debug postmortem generate full logs command generates a postmortem archive of all the Integration Appliance logs, which includes new logs in addition to archived logs, and possibly several stacks that are generated by previously running the debug show stack command.

The postmortem archive remains on the Integration Appliance until you reissue the command. When you issue this command, the Integration Appliance generates a new archive that overwrites the previous postmortem archive.

### Syntax

---

```
debug postmortem generate fulllogs
```

**Parent topic:** [Debugging commands](#)

---

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## The debug postmortem generate new logs command

---

The debug postmortem generate new logs command generates a postmortem archive of all the latest Integration Appliance logs and possibly several stacks that are generated by previously running the debug show stack command.

The postmortem archive remains on the Integration Appliance until you reissue the command. When you reissue this command, the Integration Appliance generates a new archive that overwrites the previous postmortem archive.

### Syntax

---

```
debug postmortem generate newlogs
```

**Parent topic:** [Debugging commands](#)

---

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## The debug postmortem generate store command

---

The debug postmortem generate store command is similar to the debug postmortem generate all command, except that the Integration Appliance only generates a postmortem archive of all the Integration Appliance logs and the data in the transactional store.

The postmortem archive remains on the Integration Appliance until you reissue the command. When you re-issue this command, the Integration Appliance generates a new archive that overwrites the previous postmortem archive.

### Syntax

---

```
debug postmortem generate store
```

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cli.doc/CLI\\_debug\\_postmortemgeneratestore.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cli.doc/CLI_debug_postmortemgeneratestore.html)

## The debug show stacks command

---

The debug show stacks command displays current runtime stack traces.

### Syntax

---

debug show stacks

**Parent topic:** Debugging commands

---

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## The debug system command

---

The debug system command allows you to start and stop the Integration Appliance runtime. When you issue the debug system stop command, all running orchestration jobs are cancelled and the Integration Appliance does not process any new orchestration jobs..

### Syntax

---

debug system {start|stop }

**Parent topic:** Debugging commands

---

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## The debug tail file command

---

The debug tail file command displays log file contents as they are added to the log.

### Syntax

---

debug tail file<filename>

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## The debug top command

---

The debug top file command dynamically displays process status.

### Syntax

---

```
debug top
```

**Parent topic:** [Debugging commands](#)

---

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## The debug job command

---

The debug job command allows you to capture the instruction set and log of a running job.

### Syntax

---

```
debug job <jobid>
```

**Parent topic:** [Debugging commands](#)

---

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## High availability commands

---

High availability (HA) management commands. These commands are only available with an Integration Appliance HA pair.

- [The ha active command](#)  
The ha active command orders the idle machine to become active. You can only issue this command if there is no peer, or the peer machine is idle.
- [The ha conncheck command](#)  
The ha conncheck command provides information to help diagnose possible connection problems related to a high availability pair. This command is only available in active mode.
- [The ha disconnect command](#)  
The ha disconnect command Temporarily disconnects an HA pair without causing the standby machine to takeover the active machine.. This command is only available in active mode.
- [The ha power off standby command](#)  
The ha power off standby command powers off the Standby Integration Appliance in a high availability pair. This command is only available in active mode.

- [The ha power on standby command](#)

The ha power on standby command powers on the Standby Integration Appliance in a high availability pair. This command is only available in active mode.

- [The ha reboot command](#)

The ha reboot command completes a system reboot of the Integration Appliance you specify: active or standby. The ha reboot command is only available for use in an HA pair. When you issue the ha reboot standby command, the Standby Integration Appliance reboots, while the Active Integration Appliance continues to process data. When you issue the ha reboot active command, the Active Integration Appliance shuts down all routing services and then reboots. The Standby Integration Appliance does not provide failover capabilities and data is not processed until the Active Integration Appliance is back online. To simulate failover capabilities, switch the modes of the machines in the HA pair using the ha switch command — the Active Integration Appliance (A1) becomes the Standby Integration Appliance (S2) and Standby Integration Appliance (S1) becomes the Active Integration Appliance (A2). After the Integration Appliances in the HA pair have switched modes, issue the ha reboot standby command. S1 continues to process data, while A1 is rebooting.

- [The ha show lastaccess command](#)

The ha show lastaccess command displays the last 10 state transitions on the Integration Appliance. Only available in idle mode.

- [The ha show pairstatus command](#)

The ha show pairstatus command displays status of the high availability pair, providing information about which Integration Appliance is Active and which is Standby. Only available in active mode.

- [The ha switch command](#)

The ha switch command switches the roles of the Integration Appliance in a high availability pair. The Active machine becomes the Standby machine and the standby machine becomes Active. Only available in active mode.

---

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## The ha active command

---

The ha active command orders the idle machine to become active. You can only issue this command if there is no peer, or the peer machine is idle.

### Syntax

---

Note: Using this command incorrectly can lead to data corruption.

ha active

**Parent topic:** [High availability commands](#)

---

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## The ha conncheck command

---

The ha conncheck command provides information to help diagnose possible connection problems related to a high availability pair. This command is only available in active mode.

### Syntax

---

ha conncheck

**Parent topic:** [High availability commands](#)

---

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## The ha disconnect command

---

The ha disconnect command Temporarily disconnects an HA pair without causing the standby machine to takeover the active machine.. This command is only available in active mode.

This action allows you to perform any necessary hardware or software maintenance on the Standby machine without interrupting orchestration processing.

When you choose this action, the Standby machine transitions to an idle state. Reboot the active machine or run the connect action to reestablish communications between an HA pair and resumes data synchronization and fail-over operations.

To perform maintenance on an Active machine, run the switch action. The active machine becomes the standby machine, where you can execute the disconnect action and perform Integration Appliance maintenance without interrupting orchestration processing.

### Syntax

---

ha disconnect

**Parent topic:** [High availability commands](#)

---

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## The ha power off standby command

---

The ha power off standby command powers off the Standby Integration Appliance in a high availability pair. This command is only available in active mode.

### Syntax

---

ha poweroff standby

**Parent topic:** [High availability commands](#)

---

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## The ha power on standby command

---

---

The ha power on standby command powers on the Standby Integration Appliance in a high availability pair. This command is only available in active mode.

## Syntax

---

```
ha poweron standby
```

**Parent topic:** [High availability commands](#)

---

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## The ha reboot command

---

The ha reboot command completes a system reboot of the Integration Appliance you specify: active or standby. The ha reboot command is only available for use in an HA pair. When you issue the ha reboot standby command, the Standby Integration Appliance reboots, while the Active Integration Appliance continues to process data. When you issue the ha reboot active command, the Active Integration Appliance shuts down all routing services and then reboots. The Standby Integration Appliance does not provide failover capabilities and data is not processed until the Active Integration Appliance is back online. To simulate failover capabilities, switch the modes of the machines in the HA pair using the ha switch command – the Active Integration Appliance (A1) becomes the Standby Integration Appliance (S2) and Standby Integration Appliance (S1) becomes the Active Integration Appliance (A2). After the Integration Appliances in the HA pair have switched modes, issue the ha reboot standby command. S1 continues to process data, while A1 is rebooting.

## Syntax

---

```
ha reboot {active|standby}
```

**Parent topic:** [High availability commands](#)

---

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## The ha show lastaccess command

---

The ha show lastaccess command displays the last 10 state transitions on the Integration Appliance. Only available in idle mode.

## Syntax

---

```
ha show lastaccess
```

An Integration Appliance state transition from idle to active displays the following information:

[GMT] Jan 10 00:55:50 State changed from 'IDLE' to 'ACTIVE\_1'

**Parent topic:** [High availability commands](#)

---

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## The ha show pairstatus command

---

The ha show pairstatus command displays status of the high availability pair, providing information about which Integration Appliance is Active and which is Standby. Only available in active mode.

### Syntax

---

ha show pairstatus

**Parent topic:** [High availability commands](#)

---

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## The ha switch command

---

The ha switch command switches the roles of the Integration Appliance in a high availability pair. The Active machine becomes the Standby machine and the standby machine becomes Active. Only available in active mode.

### Syntax

---

ha switch

**Parent topic:** [High availability commands](#)

---

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## Management commands

---

A list of the management (mgmt) commands available.

Note: If you specify community names that require quotation marks, you must use ("") double quotation marks.

Table 1.

Com man d nam e	Action	Syntax

Com man d nam e	Action	Syntax
mg mt kerb eros del confi g	Deletes the Kerberos realm and KDC server configurations.	mgmt kerberos del config
mg mt kerb eros set real m	Allows you to specify the Kerberos realm and KDC server configuration settings.	mgmt kerberos set realm<name>kdc<name   ipaddress>
mg mt kerb eros sho w confi g	Displays the Kerberos realm and KDC server configuration settings.	mgmt kerberos show config
mg mt mot d	Allows you to set a message of the day that is displayed when a user logs in to the CLI. You can view the message of the day that was set, by choosing the show parameter. Choose the clear parameter and no message of the day is displayed when a user logs in to the CLI.	mgmt motd{set show clear}
mg mt secu re	<p>Enables or disables secure access to the Integration Appliance for the management interface. The default option is on, which enables secure management access. When secure management access is enabled (on), you must access the CLI by using SSH (secure shell) and access the Web Management Console (WMC) by using HTTPS. When you disable secure management access, by choosing the off option, you can access the CLI by using telnet and access the WMC by using HTTP.</p> <p>Verify the current security setting by using the mgmt secure setting command</p>	mgmt secure { on   off   setting}
mg mt snmp p set	Allows you to set up or update current SNMP configurations, as well as enable and disable the SNMP MIB2 service. For more information on using SNMP commands, see <a href="#">SNMP basics</a> .	1. mgmt snmp set { community   description   location   contact } <value> 2. mgmt snmp set { on   off }
mg mt snmp p sho w	Displays current SNMP configuration settings.	mgmt snmp show { community   description   location   contact   all   status }
mg mt ssh add	<p>Adds a public key for the specified host to the SSH Store on the Integration Appliance. If strict SSH key checking is enabled on the Integration Appliance, public keys must reside in the SSH Store for all participating endpoint systems that the Integration Appliance connects to with SFTP.</p> <p>Restart the Integration Appliance after you issue this command.</p> <p>Note: The keytype is a required parameter.</p>	mgmt ssh add<rsa dsa>host<name ipaddr name,ipaddr>

Com man d nam e	Action	Syntax
mg mt ssh del	<p>Deletes the public key for the specified host from the SSH Store on the Integration Appliance.</p> <p>Restart the Integration Appliance after you issue this command.</p> <p>Note: The keytype is a required parameter.</p>	mgmt ssh del host<hostname>   host IP address>
mg mt ssh keyc heck	<p>Enables or disables strict SSH key checking.</p> <p>In strict mode, SFTP connectors only connect to participating endpoint systems if the public key for that system matches the public key stored in the SSH Store of the Integration Appliance.</p> <p>In easy mode, SFTP connectors connect to participating endpoint system if either:</p> <ul style="list-style-type: none"> <li>The public key for that system matches the public key stored in the SSH Store</li> <li>No public key exists in the SSH Store. If no key exists, the connector loads the current public key from the participating endpoint system to the SSH Store</li> </ul>	mgmt ssh keycheck<strict easy >
mg mt ssh list	Displays all or a specified host that have public keys in the SSH Store. Public keys in the SSH Store are used with SFTP connectors to ensure secure connections.	mgmt ssh list[host<name   host IP address>]
mg mt ssh sho w keyc heck	Displays the current setting of SSH key checking: strict or easy.	mgmt ssh show keycheck
mg mt sysl og del confi g	Allows you to delete system log (syslog) configurations.	mgmt syslog del config
mg mt sysl og set rem ote host	Allows you to specify the remote host to which logs are sent.	mgmt syslog set remote host<name   host IP address>
mg mt sysl og sho w confi g	Displays current system log (syslog) configuration settings.	mgmt syslog show config

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## Network commands

Network commands that you can use to manage the network configuration.

Table 1.

Command name	Action	Syntax
net add etchost	<p>Adds an entry to the /etc/hosts configuration file in the Integration Appliance. The IP address is typically the management IP address of the appliance. It is best practice to specify a fully qualified host name (for example, <i>myhost.mydept.mycompany.com</i>). Also, although alias is an optional parameter, it is best practice to specify an alias (for example, <i>myhost</i>).</p> <p>Here is an example of a net add etchost command.</p> <pre>net add etchost address 111.222.333.444 hostname myhost.mydept.mycompany.com alias myhost</pre> <p>If an entry was previously added with a host name that is not fully qualified, that entry must first be removed by using the net del etchost command before you add an entry with a fully qualified host name. Verify that the entry was successfully deleted by using the net show etchost command.</p>	<pre>net add etchost address &lt;ip-address&gt; hostname &lt;fully-qualified-hostname&gt; [alias &lt;short-alias-name&gt;]</pre>
net add route address	Adds a static route to the routing table.	<pre>net add route address &lt;destination&gt; mask &lt;netmask&gt; [gateway &lt;gateway&gt;] interface {emgmt   edata}</pre>
net del etchost	<p>Removes one or more entries from the /etc/hosts configuration file in the Integration Appliance.</p> <p>Specify the identical parameters that were used when the entry was added by using the net add etchost command. You can verify the details by using the net show etchost command.</p>	<pre>net del etchost address &lt;ip-address&gt; hostname &lt;fully-qualified-hostname&gt; [alias &lt;short-alias-name&gt;]</pre>
net del route address	Removes a static route from the routing table.	<pre>net del route address &lt;ip-address&gt; mask &lt;mask&gt;</pre>
net flush dhcp	Erases cached DHCP values from the Integration Appliance.	<pre>net flush dhcp</pre>
net ping	Queries the specified host to determine if it is responding on the network.	<pre>net ping {&lt;ip-address&gt; &lt;nodename&gt;}</pre>
net restart	Saves and applies any new network settings. You must use this command after net set, net add, or net del commands to apply the changes.	<pre>net restart</pre>
net restore	Restores the memory to active or backup settings.	<pre>net restore {active backup}</pre>

Command name	Action	Syntax
net trace route	Traces the network route to the specified node.	net traceroute <ip-address>   <nodename>
net validate	<p>Tests the current in-memory settings and displays any warnings or errors that might prevent the network from operating correctly.</p> <p>When all network settings are acceptable, issuing this command returns the following statement, "Current network settings can be applied."</p> <p>When an invalid setting is entered, issuing this command returns the appropriate warning or error messages. For example,</p> <pre>warning: Route to 9.43.79.4 requires static Data IP address error: Gateway 9.9.9.9 is not reachable from emgmt Current network settings cannot be applied</pre>	net validate

For the net set and net show commands, see the following topics:

- [The net set command](#)  
Sets the configuration for the network interfaces of the Integration Appliance, DNS server, host name, and default gateway. Choose the net set autohost command to automatically add the hostname/IP address to the Integration Appliance. You can also set the amount of time before reporting a lost carrier.
- [The net show command](#)  
This command displays all network configuration for the Integration Appliance. This command can also display specific configuration information for the network interfaces, DNS server, host name, default gateway, routing tables, and socket connections. If you enable the net set autohost command, use the net show autohost to view the current settings of the autohost.

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## The net set command

Sets the configuration for the network interfaces of the Integration Appliance, DNS server, host name, and default gateway. Choose the net set autohost command to automatically add the hostname/IP address to the Integration Appliance. You can also set the amount of time before reporting a lost carrier.

To improve startup time in networks that do not have a DHCP server, configure all items to either static values or none so the Integration Appliance does not search for a DHCP server.

If you configure any value to be obtained through DHCP, startup time could be delayed as the Integration Appliance tries to locate an available DHCP server.

The network interfaces of the Integration Appliance use these names:

- edata - for the interface that handles all integration data
- emgmt - for the interface that handles management traffic, including both the CLI and the Web Management Console (WMC)

Table 1.

<b>O p t i o n s</b>	<b>Description</b>
a ut o h o st	Allows the Integration Appliance to find its IP address from its own hostname. When you enabled this option and the Integration Appliance cannot find an IP address corresponding to its hostname, either through DNS or an entry you entered manually into the /etc/hosts directory, the Integration Appliance automatically adds an entry into the /etc/hosts directory to allow the CIOS to operate normally. Enable or disable this option through the net set autohost command.
c ar ri er	Specifies the time, in seconds, until a missing ethernet link carrier is reported as an error. Setting the value to zero disables the carrier checking and no errors are reported.
d o m ai n	Sets the domain name for this Integration Appliance. The effect is that most queries for names within this domain can use short names relative to the local domain.
g at e w a y	Specifies the gateway and the interface to use for that gateway. The Integration Appliance supports only one default gateway for both management and data traffic (as opposed to one gateway per interface), but additional routes can be added separately.
h o st n a m e	Sets the name of the Integration Appliance. This should be the short hostname, without the domain name.
in te rf a c e	Sets the IP address, Netmask and Broadcast address for the specified interface.
li n k	Sets the ethernet link to autonegotiate (the default) or to specific values. In most cases autonegotiate is preferable, but setting specific values can sometimes help improve throughput when network conditions are not optimal.
m tu	Sets the Maximum Transmission Unit (MTU) size between a range of (68-9000). The default MTU is 1500.
n a m e s er v er	Sets DNS server list (maximum 2).
nt p	Sets the time server.

O p t i o n s	Description
s e ar c h	Specifies the search list. If you do not set this option, the search list is the same as the value of the domain setting.

## Syntax 1

---

```
net set autohost [enable|disable]
```

## Syntax 2

---

```
net set carrier timeout <timeout>
```

## Syntax 3

---

```
net set {domain|search|nameserver|ntp} {dhcp[emgmt|edata]|static <value>}|none}
```

**Example 1:** Set a specific domain name.

```
net set domain static mydomain.com
```

**Example 2:** Ask a DHCP server on the management NIC for an NTP server.

```
net set ntp dhcp emgmt
```

**Example 3:** Search for host names in specified domains.

```
net set search static a.mydomain.com b.mydomain.com
```

**Example 4:** Do not search for host names in other domains.

```
net set search none
```

## Syntax 4

---

```
net set gateway {dhcp {emgmt|edata}|static <ipaddress>} {emgmt|edata}|none}
```

## Syntax 5

---

```
net set hostname {dhcp[emgmt|edata]|static <value>}
```

## Syntax 6

---

```
net set interface {emgmt|edata} {dhcp|address <ipaddress> mask <mask> [bcast <bcast>]}
```

## Syntax 7

---

```
net set link {emgmt|edata} {autonegotiate|speed <speed>} duplex {half|full}}
```

## Syntax 8

---

```
net set mtu {emgmt|edata} <MTU>
```

**Parent topic:** [Network commands](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cli.doc/CLI\\_network\\_netset.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cli.doc/CLI_network_netset.html)

## The net show command

This command displays all network configuration for the Integration Appliance. This command can also display specific configuration information for the network interfaces, DNS server, host name, default gateway, routing tables, and socket connections. If you enable the net set autohost command, use the net show autohost to view the current settings of the autohost.

You can issue a collection of network settings changes in memory with the net show command. The Integration Appliance does not persist these changes. The net show command only becomes permanent after you issue a net restart command.

- Active - Displays the network settings for the Integration Appliance that is currently running.
- Memory - Displays the network settings of a staging Integration Appliance that becomes active when you issue the net restart command.
- Backup - Specifies the Integration Appliance that was active before you issued the previous net restart command.

The network interfaces of the Integration Appliance use these names:

- edata - for the interface that handles all integration data
- emgmt - for the interface that handles management traffic, including both the CLI and the Web Management Console

Table 1. . The following table provides descriptions for options available in the various command syntaxes:

<b>Options</b>	<b>Description</b>
all	Displays all network configuration information for the Integration Appliance.
active	Displays complete network configurations.
autohost	Allows the Integration Appliance to find its IP address from its own hostname. When you enabled this option and the Integration Appliance cannot find an IP address corresponding to its hostname, either through DNS or an entry you entered manually into the /etc/hosts directory, the Integration Appliance automatically adds an entry into the /etc/hosts directory to allow the runtime to operate normally. Enable or disable this option through the net set autohost command.
bakcup	Displays complete network configurations.
carrier	Specifies the time, in seconds, until a missing ethernet link carrier is reported as an error. Setting the value to zero disables the carrier checking and no errors are reported.
domain	Displays the domain name for this Integration Appliance. The effect is that most queries for names within this domain can use short names relative to the local domain.

<b>O p t i o n s</b>	<b>Description</b>
et c h o st	Displays the entries within /etc/hosts.
g at e w a y	Specifies the gateway and the interface to use for that gateway. The Integration Appliance supports only one default gateway for both management and data traffic (as opposed to one gateway per interface), but additional routes can be added separately.
h o st n a m e	Displays the name of the Integration Appliance. This should be the short hostname, without the domain name.
in te rf a c e	Displays the IP address, Netmask and Broadcast address for the specified interface.
li n k	Sets the ethernet link to autonegotiate (the default) or to specific values. In most cases autonegotiate is preferable, but setting specific values can sometimes help improve throughput when network conditions are not optimal.
m e m or y	Displays complete network configurations.
m tu	Displays Maximum Transmission Unit (MTU) size for data in an IP packet.
n a m e s er v er	Displays the DNS server list (maximum 2).
n o d e	Displays the IP address for the node.
nt p	Displays the network protocol for clock synchronization between an appliance and network.
ro ut e	Displays active routes.

<b>O p t i o n s</b>	<b>Description</b>
s e ar c h	Specifies the search list. If you do not set this option, the search list is the same as the value of the domain setting.
s o c k et s	Displays a list of socket addresses.
st at u s	Displays the network status of the Integration Appliance, including the last attempt to start networking, the last time networking started, the last time networking stopped, the reason for last networking stop and the current networking activity.

## Syntax 1

---

```
net show {active|memory|backup}
```

## Syntax 2

---

```
net show {hostname|domain|search|nameserver|gateway|ntp} [ all|active|memory|backup]
```

If not specified, the last parameter defaults to active.

## Syntax 3

---

```
net show autohost
```

## Syntax 4

---

```
net show carrier [all|active|memory|backup]
```

## Syntax 5

---

```
net show etchost
```

## Syntax 6

---

```
net show interface {emgmt|edata} [all|active|memory|backup]
```

## Syntax 7

---

```
net show link [all|active|memory|backup]
```

## Syntax 8

---

```
net show node {<ip address>|<hostname> }
```

## Syntax 9

---

```
net show route [active|memory|backup]
```

If not specified, the last parameter defaults to active.

## Syntax 10

---

```
net show sockets
```

## Syntax 11

---

```
net show status
```

**Parent topic:** [Network commands](#)

---

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## Network introspection commands

---

Network introspection (Netspect) commands allow you to manage network configurations and query the network for DHCP server, DNS server, gateway, and route information.

Note: Do not use reserved words in the user name, host name, or file name. Reserved words include: ftp, sftp, export, ibm, port, user, and file.

Table 1.

Com man d nam e	Action	Syntax
netspect arp	Issues an ARP request for the IP address you specify and displays the result of the ARP reply or displays the ARP cache content.	<code>netspect arp &lt;lookup ipv4-address show cache&gt;</code>
netspect capture clean	Deletes all existing packet capture files.	<code>netspect capture clean</code>
netspect capture show	Displays the captured packets. Issuing this command also stops any running packet capture.	<code>netspect capture show</code>

Command name	Action	Syntax
netspect capture start	<p>Initiates a packet trace and produces a gzip (.gz) file. Packet traces can be useful for debugging network connection errors.</p> <p>Only one packet trace capture can run at a time. The capture continues running until you stop it using &lt;CTRL + C&gt; or until a maximum number of packets is reached.</p> <p>Note: When you start a capture with packet size parameter set to full, <code>pktsize full</code>, fewer packets can be captured.</p> <p>You can transfer packet traces to another host using the <code>netspect export</code> command.</p> <p>Note: Capturing a packet trace overwrites the previous capture.</p>	<pre>netspect capture start [interface &lt;emgmt edata all&gt;] [pktsize &lt;header full&gt;] [find &lt;hostname network&gt;]</pre> <p>where</p> <ul style="list-style-type: none"> <li>• <code>hostname</code> - Captures to/from specified host (nn.nn.nn.nn).</li> <li>• <code>network</code> - Captures to/from certain network in CIDR.</li> </ul> <p>Note: If you do not specify <code>emgmt</code> or <code>edata</code> for the interface parameter, the Integration Appliance uses the default value of <code>all</code> and capture starts for both interfaces.</p> <p><b>Example 1:</b> Capture packet headers on both interfaces.</p> <pre>netspect capture start</pre> <p><b>Example 2:</b> Capture full packets on <code>edata</code>.</p> <pre>netspect capture start interface edata pktsize full</pre> <p><b>Example 3:</b> Capture packet headers on <code>edata</code> to/from certain network.</p> <pre>netspect capture start interface edata find 123.12.0.0/24</pre> <p><b>Example 4:</b> Capture full packets on <code>emgmt</code> to/from certain host.</p> <pre>netspect capture start interface emgmt pktsize full find 123.12.0.123</pre>
netspect connect	Using the protocol you specify, this command attempts to open a connection to the network host port and displays the result of the connection attempt. If a connection is established, the connection is closed prior to this command returning.	<pre>netspect connect host &lt;host-id&gt; &lt;protocol&gt; port &lt;port-num&gt; where</pre> <ul style="list-style-type: none"> <li>• <code>host-id</code> - The name or IP address of a network host.</li> <li>• <code>protocol</code> - The protocol to use for the connection. Must be "tcp".</li> <li>• <code>port-num</code> - Any valid tcp port number.</li> </ul>
netspect dhcp	Queries the network for DHCP servers on the network interface you specify. Also displays DHCP server supplied network configuration information, plus the offered IP address and its lease terms.	<pre>netspect dhcp interface &lt;emgmt edata&gt;</pre>
netspect dns	Queries the system configured DNS server for the specified network host (i.e. perform either a forward lookup: return the IP address for a given host name, or perform a reverse lookup: return a host name for a given IP address), and display the result of the lookup.	<pre>netspect dns lookup host &lt;host-id&gt;</pre>

Command name	Action	Syntax
netspect export	Exports a packet capture file to an FTP Server. For more information about capturing packet traces, see the netspect capture start command.	<pre>netspect export &lt;ftp sftp&gt; host &lt;host-id&gt; [port &lt;number&gt;] [user &lt;user&gt;] [file &lt;filename&gt;] where:</pre> <ul style="list-style-type: none"> <li>• <b>host-id</b> - The name or IP address of the network host.</li> <li>• <b>port</b> - A valid port on the specified network host to which to connect.</li> <li>• <b>user</b> - Specifies the username used to log into the host.</li> </ul> <p>Note: When using sftp, this parameter must be specified. Anonymous logins are not allowed with sftp.</p> <ul style="list-style-type: none"> <li>• <b>filename</b> - File path on the destination host.</li> </ul> <p><b>Example 1:</b> netspect export ftp.</p> <pre>netspect export ftp host 123.12.12.123</pre> <p><b>Example 2:</b> netspect export sftp.</p> <pre>netspect export sftp host 123.12.12.123 user myname file /home/myname/mycap.gz</pre>
netspect gateways	Queries the gateways and routes for the specified IP protocol family, and reports whether or not the gateway responded to the query/ping. The IP protocol family can be either ipv4, which is the default or ipv6.	netspect gateways <ip-protocol>
netspect help	Displays help text for the specified netspect command. If a command is not specified, then a help summary for all netspect commands is displayed.	netspect help <command>
netspect ifconfig	Displays network interface configuration information for the specified interface. If a network interface name is not specified, then interface configuration information is displayed for all network interfaces.	netspect ifconfig interface <emgmt edata>
netspect ping	Attempts to query the specified network host, and displays the result of the query attempt.	netspect ping host <host-id>
netspect routes	Displays currently configured routes for the specified IP protocol family. The IP protocol family can be either IPv4 (the default if none specified) or IPv6.	netspect routes [<ip-protocol> ]

<b>Com mand name</b>	<b>Action</b>	<b>Syntax</b>
netspect summary	Provides a summary of network configuration information.	<code>netspect summary</code>
netspect traceroute	Attempts to determine the route to the specified network host, and displays the route packets took to get to the specified network host.	<code>netspect traceroute host &lt;host-id&gt;</code>

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## Status commands

Status commands allow you to view Integration Appliance status.

Table 1.

<b>Command name</b>	<b>Action</b>	<b>Syntax</b>
stat show all	Displays system status information, such as: disk usage, memory usage, uptime, and active processes.	<code>stat show all</code>

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/CLI\\_status\\_commands.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/CLI_status_commands.html)

## System commands

System commands allow you to manage the operation of the Integration Appliance, which includes managing licenses for the Integration Appliance and connectors.

Note: Do not use reserved words in the user name, host name, or file name. Reserved words include: ftp, sftp, ibm, port, user, and file.

Table 1.

<b>Com mand name</b>	<b>Action</b>	<b>Syntax</b>
system autorboot	Allows you to enable or disable automatic reboot for an Integration Appliance.  Note: During a Cast Iron® firmware upgrade, the Integration Appliance reboots even if the automatic reboot is disabled.	<code>system autorboot &lt;on   off&gt;</code>

Command name	Action	Syntax
system autorereboot setting	Use the setting parameter to print autoreboot settings.	system autoreboot setting
system clean	<p>Clears the system states of the Integration Appliance. When you issue a system clean all command, the IBM® DataPower® Cast Iron® Appliance may reboot.</p> <p>Running the <code>all</code> option results in the removal of all data and configurations, including High Availability configurations, from disk. The results are equivalent to restoring factory default settings for the appliance. After the reboot, you will be asked to accept the license agreement before logging in to the Web Management Console for the appliance.</p>	<code>system clean{ [running] [orchmon] [deploy] }  all</code> <b>where:</b> <ul style="list-style-type: none"> <li>• <code>running</code> - Removes currently running project data.</li> <li>• <code>orchmon</code> - Removes orchestration monitoring data.</li> <li>• <code>deploy</code> - Removes all projects and configurations.</li> <li>• <code>all</code> - Resets the appliance to factory default settings.</li> </ul>
system persist	<p>Enables or disables the disk cache on the Integration Appliance. The default and recommended setting is <code>system persist on</code>.</p> <p>When persistence is enabled, writes are synchronized to ensure that all requested data is completely written to disk. This behavior helps protect data integrity, particularly when accessing external transactional systems such as databases.</p> <p>When persistence is disabled, on an appliance that supports this feature, performance might be improved. However, there is a risk of losing job progress state.</p>	<code>system persist { on   off }</code>
system persist setting	Displays the current system persist setting: on or off. Use the <code>system persist</code> command to specify whether the disk cache is enabled or disabled.	<code>system persist setting</code>
system poweroff	Shuts down all routing services and then powers off the Integration Appliance. If the force parameter is used, power is cut off immediately.	<code>system poweroff</code>
system reboot	<p>Shuts down all routing services and then reboots the Integration Appliance.</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• Before making changes like Upgrade/Reboot of appliance, please stop all projects in the runtime. After appliance comes back, starts the projects one-by-one.</li> <li>• When the system reboots, any network settings that have not been saved are lost. To commit network settings to the Integration Appliance, use the <code>net restart</code> command.</li> </ul>	<code>system reboot</code>
system restart	Restarts the runtime and Web Management Console, without affecting the network connectivity.	<code>system restart</code>

Command name	Action	Syntax
system show platform	Displays information about the Integration Appliance, such as: ROM version, appliance platform, serial number, and MAC addresses.	system show platform
system show status	Available for Standalone Integration Appliances as well as the Active Integration Appliance in an HA pair. Shows whether the following components are up or down: System, Network, and Runtime.	system show status Example output: Appliance Status ----- System: Up Network: Up Runtime: Up
system show version	Displays the version of the Cast Iron operating system on the Integration Appliance.	system show version
system update ci os image	Updates the Cast Iron Operating System on the Integration Appliance using an image from an FTP Server based file or an SFTP Server based file.	system update ci os image from <source> where source can specify an FTP Server or an SFTP Server: <ul style="list-style-type: none"> <li>• ftp &lt;hostname&gt; [port &lt;number&gt;] [user &lt;user&gt;] file &lt;filename&gt;</li> <li>• sftp &lt;hostname&gt; [port &lt;number&gt;] user &lt;user&gt; file &lt;filename&gt;</li> <li>• http &lt;hostname&gt; [port &lt;number&gt;] [user &lt;user&gt;] file &lt;filename&gt;</li> <li>• https &lt;hostname&gt; [port &lt;number&gt;] user &lt;user&gt; file &lt;filename&gt;</li> </ul> <p>Note: When using sftp, you must specify the user parameter. Anonymous logins are not allowed with sftp.</p>

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## Time commands

---

Time commands allow you to set or synchronize the date and time on the Integration Appliance.

Note: To avoid time drift on Virtual Appliances, run NTP on the host and guest. Running NTP sets the system time to UTC. Do not use the time set clock command to reset time on a Virtual Appliance.

Table 1.

Comm and name	Action	Syntax
time set	<p>Sets individual time and date components relative to the time zone you choose. The Integration Appliance restarts after you issue this command using the <code>clock</code> parameter.</p> <p>If you do not know the syntax for a specific time zone, choose the last option and do not specify a value for zone.</p>	<pre>time set { {   clock&lt;string&gt;}   { zone&lt;zone&gt;}   { zone} }</pre> <p>Example 1:</p> <ul style="list-style-type: none"><li>• <code>time set clock&lt;string&gt;</code></li><li>• User input: <code>time set clock Sat Jan 1 00:00:00 2005</code></li></ul> <p>Example 2:</p> <ul style="list-style-type: none"><li>• <code>time set zone&lt;zone&gt;</code></li><li>• User input: <code>time set zone America/Los_Angeles</code></li></ul>
time show	Display all time settings or individual time components (the current time, date, or time zone).	<code>time show</code>

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cli.doc/CLI\\_time\\_commands.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cli.doc/CLI_time_commands.html)

## About High Availability Pairs

---

A High Availability (HA) pair is an Integration Appliance configuration that connects two physical Integration Appliances together, allowing them to automatically synchronize data and perform fail-over operations. The machines that make up the HA pair share the same MAC and IP addresses, thus creating a single network identity.

There is one Active and one Standby Integration Appliance in an HA pair. The Integration Appliance that actively processes orchestrations is the Active machine. The Integration Appliance that automatically synchronizes data and performs fail-over operations is the Standby machine. When the machines that make up an HA pair initially connect to each other, they immediately synchronize with each other and determine which machine assumes the active role and which machine assumes the standby role. During the initial synchronization operation, the Active machine can process orchestrations; however, fail-over cannot occur until the HA pair is completely synchronized. Once the HA pair is synchronized, the HA pair persists data and automatically synchronizes this data between the two machines.

When an Active machine failure occurs, the Standby machine initiates a take over procedure, becomes the Active machine, and resumes processing orchestrations exactly where the other machine stopped. The take over process typically takes less than a minute to complete, but DHCP response times can slow the take over process. During the take over procedure, the Standby machine power cycles the Active machine to ensure the Active machine is not still processing orchestrations. Only when the Standby machine can successfully power cycle the failed Active machine does it become the Active machine. If the Standby machine is unable to power cycle the Active machine, the Standby machine goes into an IDLE state.

Examples of failures that can cause an HA fail-over to occur include the following failures:

- Hardware failures generated by CPUs, hard drives, RAM, motherboards, network interfaces, power supplies, and raid-controllers.
- Integration Appliance runtime failures, such as fatal errors during processing.
- Communication failures between the Integration Appliances caused by replication port network interface issues or replication cable issues.

When the Active machine loses contact with the Standby machine, the Active machine stops running orchestrations to prevent an asynchronous data commit and waits to see if the Standby machine initiates the take over procedure. If the Standby machine does not power cycle the Active machine, the Active machine resumes processing orchestrations. When the Standby machine is able to reconnect to the Active machine, the Standby machine synchronizes with the Active machine.

From the WMC, you can monitor an HA pair's status and manipulate the roles of the Integration Appliances in an HA pair.

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## About Integration Appliance States

---

Integration Appliances in a High Availability (HA) pair can be in one of many states. States for Integration Appliances in an HA pair include:

States for Integration Appliances in an HA pair include:

**ACTIVE\_1**

The Active machine cannot communicate with the Standby machine; however, the Active machine continues to process data.

**ACTIVE\_2**

The Active machine is successfully processing data and can communicate with the peer HA machine.

**IDLE**

Displays when the Active machine or Standby machine encounters a hardware or software problem. An IDLE state helps to ensure data integrity between an HA pair. IDLE is not always an error state.

For example, the Active machine enters an IDLE state when it power cycles and remains in this state until it can verify the state of the Standby machine.

**STANDBY**

The Standby machine is successfully synchronizing with the Active machine.

**TRANSITIONING**

Can occur immediately before or after rebooting. Typically, a machine in an HA pair remains in this state after rebooting long enough to perform some initialization, find its peer, and then transition into the appropriate state.

**UNKNOWN**

Occurs when the peer machine is unavailable. For example, when a Standby machine is powered off, the Active machine states that the state of the peer machine (Standby machine) is UNKNOWN.

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## Requirements for Configuring High Availability Pairs

---

A High Availability (HA) pair requires a very specific hardware configuration, and the two Integration Appliances must meet certain requirements.

To operate as an HA pair, the two Integration Appliances must meet the following requirements:

- Both Integration Appliances must use the same version of the Cast Iron® Operating System. When you apply a patch to one Integration Appliance, the same patch is automatically applied to the other Integration Appliance in the HA pair.
- The replication interfaces on one machine must be connected by cable to the corresponding interface on the other machine.

- The management network port on each Integration Appliance must be connected to the same subnet.
- The data network port on each Integration Appliance must be connected to the same subnet.

Note: A note regarding High Availability pairs and Hybrid Cloud Integration (HCI) support – If you are using HCI functionality and attempt to convert two Integration Appliances to HA, the HCI function will no longer be supported.

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# Setting Up a High Availability Pair

## About this task

Perform the following steps to set up a High Availability pair.

## Procedure

1. If you are using 9005 appliances to set up an HA pair, do the procedures in Step 1a. If you are using 9004 appliances, do the procedures in Step 1b. .

Note: High Availability can only be obtained by connecting homogeneous appliances. Do not attempt to connect dissimilar appliances (such as a 9005 appliance and a 9004 appliance) to one another to attain High Availability

- a. For the 9005 appliance - To create an HA pair, you need a total of six Ethernet cables in addition to the recommended serial console cable. Directly connect the replication interfaces of the two appliances with two Ethernet cables:

```
1 x ethernet cable for emgmt of Appliance A
1 x ethernet cable for emgmt of Appliance B
1 x ethernet cable for edata of Appliance A
1 x ethernet cable for edata of Appliance B
1 x ethernet cable for repl1 between Appliance A and Appliance B
1 x ethernet cable for repl2 between Appliance A and Appliance B
```

Connected as follows:

Appliance 1	Appliance 2
Repl 1 <----->	Repl 1
MGMT	MGMT
Data 1	Data 1
Data 2	Data 2
Data 3	Data 3
Repl 2 <----->	Repl 2

Connect MGMT and Data 1 for both appliances to the appropriate management and data networks. Data 2 and Data 3 should remain disconnected.

- b. For the 9004 appliance - Note that the network interfaces labelled externally on the Cast Iron appliance are mapped to different interfaces internally:

External Label	Internal designation
MGMT	emgmt
ETH0	r1
ETH2	edata
ETH1	r2

Connect the appliances with two Ethernet cables:

Appliance 1	Appliance 2
MGMT (internal:emgmt)	MGMT (internal:emgmt)
ETH0 (internal:r1) ----->	ETH0 (internal:r1)
ETH1 (internal:r2) ----->	ETH1 (internal:r2)
ETH2 (internal:edata)	ETH2 (internal:edata)

MGMT (emgmt) and ETH2 (edata) for both appliances should be connected to the appropriate management and data networks.

2. Select an appliance to be the initial Active peer. The second appliance will be the Standby peer.
3. Connect a serial console to the selected Cast Iron appliance. Log in to the Cast Iron command line interface (CLI) on the Active peer appliance as user `admin`. The default admin password is `!n0r1t5@C`. You should get a command prompt similar to:  
`none/Standalone>`
4. Configure the management and data networks to use statically assigned IP addresses. From the CLI, you do this by issuing a `net set interface` command followed by `net restart`:

```
appliance name/Standalone> net set interface emgmt address <MGMT IP  
ADDRESS> mask <MGMT NETMASK> bcast <MGMT BROADCAST>
```

```
appliance name/Standalone> net set interface edata address <DATA IP  
ADDRESS> mask <DATA NETMASK> bcast <DATA BROADCAST>  
appliance name/Standalone> net restart
```

5. To avoid problems, you should upgrade Cast Iron appliances with the latest software version. The software can be located on the IBM Fix Central website at <http://www.ibm.com/support/fixcentral/> and should be downloaded onto a machine that is accessible from the Cast Iron appliance to be upgraded. Upgrade of the Cast Iron software can be done through the Cast Iron Web Management Console (WMC) or alternatively, through commands issued on the command line interface. To check the software level, connect a serial console to the selected Cast Iron appliance, then log in to the Cast Iron command line interface on the Active peer appliance as user `admin`. By default the admin password is `!n0r1t5@C`. Issue the following command to check the software level:

```
none/standalone>system show version
```

If an update is required, issue the `update` command, providing the `ftp` location and user credentials required. For example:

```
none/standalone>system update cios image from ftp 10.10.17.166 user  
billbloggs file Downloads/fixcentral/castiron/myciupdate
```

The appliance reboots during the upgrade process.

6. Repeat steps 3 and 5 for the Standby appliance. Because the appliance temporarily requires two IP addresses for the duration of the upgrade, you may also need to perform step 4 on the Standby peer.

Note: After HA setup is complete, only two IP addresses (one for management and one for data) are required for the HA pair. Any IP addresses used on the Standby peer for this step are discarded upon completion of HA setup and may be used elsewhere in the network environment.

7. Issue the following command on both peers to ensure that they have the same level of software installed and that it is the required software level:

```
none/standalone>system show version
```

8. Configure the Active appliance as HA:

```
none/standalone> system haconfig enable active
```

The appliance reboots and restarts as the Active appliance.

9. Log in to the Active appliance. The command prompt shows the appliance is active:

```
none/Active>  
or  
appliance name/Active>
```

10. Connect a serial console to the selected Standby appliance, then log into the Standby peer and issue the following command to configure it as HA:

```
none/standalone> system haconfig enable standby
```

11. Log back into the Standby appliance. The command prompt shows the appliance is standby:

```
none/Standby>
```

12. On the Active appliance check the status of the HA pair:

```
appliance name/Active>ha show pairstatus
```

The output indicates if the appliances are highly available. For example:

```
appliance name/Active>ha show pairstatus
```

```
Pair Status  
-----
```

```
NOT Highly Available
Local State: ACTIVE_2
Peer State: STANDBY
Sync Status: 74%
```

```
Appliance Services
-----
Network: Up
Runtime: Starting

Command complete
```

In this example, the HA pair is not highly available because synchronization of the disks is only 74% complete. Issue the command again and the status changes:

```
appliance name/Active>ha show pairstatus
```

```
Pair Status
-----
Highly Available
Local State: ACTIVE_2
Peer State: STANDBY
Sync Status: Synced
```

```
Appliance Services
-----
Network: Up
Runtime: Up

Command complete
```

13. After synchronization completes, it is important to ensure that the HA pair can properly switch roles when necessary. Use `ha show pairstatus` to confirm that the pair is Highly Available and that the network and runtime appliance services are reported as up. Identify the serial number of the appliance that is currently active.

```
appliance name/Active> system show version
```

Issue the following command to switch the roles of the HA pair:

```
appliance name/Active> ha switch
```

The Standby peer takes over and becomes Active. (Typically this process requires about 2 minutes). The peer that was previously Active becomes Standby. Use the command `system show version` to view the serial number of the Active appliance and confirm that it has changed. Use the command "`ha show pairstatus`" to verify that the HA pair returns to the Highly Available state.

14. After confirming that the HA pair can switch roles in one direction (for example: Peer A -> Peer B), do Step 13 again to ensure the HA pair can switch roles in the other direction (Peer B -> Peer A).

Note: A note regarding High Availability pairs and Hybrid Cloud Integration (HCI) support – If you are using HCI functionality and attempt to convert two Integration Appliances to HA, the HCI function will no longer be supported.

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## Working with High Availability Pairs

---

High Availability (HA) pairs consist of two Integration Appliances: an Active machine and a Standby machine. This HA pair can then process orchestrations as a single entity.

The Active machine actively processes orchestrations, while the Standby machine automatically synchronizes data with the Active machine in case the Standby machine needs to perform any fail-over operations. When the appropriate scenario occurs, the Active machine and Standby machine can switch roles.

From the WMC, you can change the state or role of the Integration Appliances in an HA pair.

- [Running High Availability Commands](#)  
You can run commands against a High Availability (HA) pair from the navigation pane.
- [High Availability Commands](#)  
These commands can be run against a High Availability (HA) Pair.

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## Running High Availability Commands

---

You can run commands against a High Availability (HA) pair from the navigation pane.

### Procedure

---

1. Select System > Command. The System Commands page is displayed.
2. From the Choose Command drop-down list, select a command. You can view command details by clicking the drop-down arrow.
3. Click Go.

**Parent topic:** [Working with High Availability Pairs](#)

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## High Availability Commands

---

These commands can be run against a High Availability (HA) Pair.

Table 1.

Syste m Co ntr ol Co mma nds	Description
HA Conn ect	Reconnects the Active and Standby Integration Appliance so that they can resume fail-over operations.

System Control Commands	Description
HA Disconnect	Temporarily disconnects an HA pair without causing the Standby machine to take over the Active machine. This action allows you to perform any necessary hardware or software maintenance on the Standby machine without interrupting orchestration processing. When you choose this action, the Standby machine transitions to an idle state. Reboot the Active machine or execute the Connect action to reestablish communications between an HA pair and resumes data synchronization and fail-over operations. To perform maintenance on an Active machine, use the Switch action. The Active machine becomes the Standby machine, where you can use the Disconnect action and perform Integration Appliance maintenance without interrupting orchestration processing.
HA Switch	Causes the Integration Appliances in an HA pair to switch roles: the Active machine becomes the Standby machine and the Standby machine becomes the Active machine.

**Parent topic:** [Working with High Availability Pairs](#)

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## Troubleshooting a High Availability Pair

---

If both the Active and Standby machines enter an IDLE state, use the CLI to resolve the issue.

### Procedure

---

To resolve an IDLE/IDLE state:

1. From the CLI on both the Active machine and the Standby machine, type `ha show lastaccess`.
2. Determine which Integration Appliance has the most valid set of data. Usually the Integration Appliance with the most recent activity generates the most recent timestamp.
3. Type `ha active` on the Integration Appliance you determine to have the most valid data.

### Results

---

This Integration Appliance is now the Active machine in a HA pair.

If you require specific technical support for high availability pairs, contact IBM Technical Support.

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## About the virtual appliance

---

This guide provides information about creating, configuring, backing up and recovering virtual appliances. Virtual appliances run in a virtual environment and are packaged with a guest operating system and optional application software, while integration appliances are physical machines.

Cast Iron® products perform equally well in both the virtual and physical worlds. You can install the Cast Iron Operating System (CIOS) on a single virtual machine running one integration project or on multiple virtual machines running many projects to create a data center infrastructure. For information on creating virtual appliances with CIOS as the guest operating system, see [Deploying an OVF template](#).

Your virtual appliance environment should consist of the following:

- A host machine (desktop computer or server).
- CPU (for example Intel® VT-x or AMD®-V) with virtualization technology enabled. (In some cases, virtualization technology must be enabled through BIOS).
- 60 GB disk space.
- Supported configuration of either 1 CPU, 4 GB RAM or 2 CPU, 8 GB RAM. Ensure that the host has enough physical RAM to run the selected configuration or system performance might be affected.
- VMware® ESX® or ESXi version 5.0 or later. For more information on VMware products and ESX, go to <http://kb.vmware.com/selfservice/microsites/microsite.do> and click *VMware ESX and ESXi Comparison*.
- Cast Iron Hypervisor Edition installation file (in OVA format).
- VMware vCenter® Server, 4.0.0, 258672 (optional).
- VMware VMotion® and VMware High Availability add-ons (optional). When added to your installation, VMware add-ons can manage and balance your workload across virtual machines, find an optimum data center location for a virtual machine and manage OS related failures. Refer to VMware documentation to learn more about add-ons and for tips on setting up your virtual environment.

Note: Shared storage, such as a SAN, is optional. Shared storage is required to enable VMware features such as VMware VMotion and VMware High Availability.

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## Getting started with the IBM WebSphere Cast Iron Hypervisor Edition

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This guide introduces the IBM® WebSphere® Cast Iron® Hypervisor Edition (HVE) and provides an overview of virtualization technology. Virtualization refers to hardware virtualization where a virtual appliance runs in a virtual environment and is packaged with a guest operating system and optional application software.

Virtualization allows you to run several instances of an operating system on the same physical piece of hardware at the same time. Virtualization is accomplished through technology called *hypervisor*. A hypervisor allows many different simultaneously running operating systems to share the same set of physical resources (memory, CPU, disk and network) on one physical server. The physical machine on which the virtualization software runs is the *host* and virtual machines running on the host are *guests*.

Cast Iron products perform equally well in both the virtual and physical worlds. You can install the Cast Iron Operating System (CIOS) on a single virtual machine running one integration project or on multiple virtual machines running many projects to create a data center infrastructure. For information on creating virtual appliances with CIOS as the guest operating system, see [Deploying an OVF template](#).

- Requirements

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## Requirements

---

This section outlines the requirements and resources needed to establish a virtual appliance environment. For detailed information on mapping between resources, see [Resource mapping](#).

Requirements:

- A host machine (desktop computer or server).
- CPU (for example Intel® VT-x or AMD®-V) with virtualization technology enabled. (In some cases, virtualization technology must be enabled through BIOS).
- 60GB disk space.
- Supported configuration of either 1 CPU, 4GB RAM or 2 CPU, 8GB RAM. Ensure the host has enough physical RAM to run the selected configuration or system performance may be affected.
- VMware® ESX® or ESXi version 5.0 or later. For more information on VMware products and ESX, go to <http://kb.vmware.com/selfservice/microsites/microsite.do> and click on *VMware ESX and ESXi Comparison*.
- Cast Iron® Hypervisor Edition installation file (in OVA format).
- VMware vCenter® Server, 4.0.0, 258672 (optional).
- VMware VMotion® and VMware High Availability add-ons (optional). When added to your installation, VMware add-ons can manage and balance your workload across virtual machines, find an optimum data center location for a virtual machine and manage OS related failures. Refer to VMware documentation to learn more about add-ons and for tips on setting up your virtual environment.

Note: Shared storage, such as a SAN, is optional. Shared storage is required to enable VMware features such as VMware VMotion and VMware High Availability.

**Parent topic:** [Getting started with the IBM WebSphere Cast Iron Hypervisor Edition](#)

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## Resource mapping

---

This section provides information on mapping between virtual and physical resources when provisioning virtual machines.

When you instantiate a new virtual machine to run the Cast Iron HVE, you first must select a size for the virtual machine. As referenced in [Requirements](#), the supported sizes are:

- 1 CPU, 4GB RAM, minimum 60GB disk space. (Standard configuration).
- 2 CPU, 8GB RAM, minimum 60GB disk space. (Enhanced configuration).

The preceding resources sizes refer to the amount of a resource that is visible to a running virtual machine. For the Standard configuration, 1 CPU and 60GB disk space refer to the number of virtual CPUs and the amount of disk space the virtual machine must see. Because virtualization allows many different virtual machines running different operating system instances to share the same physical resources, it's important to size your physical host environment to account for the number of virtual machines you have running.

## Memory

---

In addition to your host environment, it's important to size your physical host to properly account for the amount of memory needed for your running guests. Best practice dictates that your host should have more physical memory than the sum of the memory set up for the simultaneously running guests. For example, if you are trying to size a physical host to run both the Standard and Enhanced configurations, you should pick a host that has  $4 + 8 + 2 \Rightarrow$  at least 14GB of RAM. (The extra 2GB of RAM is recommended for the hypervisor processes).

## CPU

---

When mapping virtual CPUs to physical CPUs you should count one physical CPU core per virtual CPU that will be running simultaneously, and leave at least one core as a buffer for the hypervisor processes. For example, if you are trying to size a physical host to run both the Standard and Enhanced configurations, you should pick a host that has  $1 + 2 + 1 = 4$  physical CPU cores. Because most physical CPUs are multicore, a physical host with one quad-core CPU is sufficient to run the configurations. Because the Cast Iron HVE uses a 64-bit kernel, your host must have a physical CPU with virtualization technology support available and enabled, (for example, Intel's VT-x or AMD's AMD-V). In some cases, virtualization technology must be enabled through BIOS.

## Disk

---

Disk are typically the cheapest resource in a virtualized environment. Best practices dictate that a virtual machine should preallocate the amount of disk space required onto physical disks so that performance does not suffer when trying to expand disks later. When sizing disks, you should significantly oversize the disks so you can store many suspended virtual machines at the same time and only instantiate the ones needed. For example, if you are trying to size a physical host to run both the Standard and Enhanced configurations, the minimum requirement for disk space is  $60 + 60 + 5 = 125$ GB. (The remaining 5GB of space is for the hypervisor software). However, best practice is to get a physical host with significantly larger disks so that you can store more inactive virtual machines as your needs grow.

---

[Feedback](#) | [Notices](#)

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## Upload an appliance patch

---

By uploading an appliance patch, you can upgrade to the newest version of the Cast Iron® operating system and access the latest features.

### Before you begin

---

Important: If you use SAP projects, you must ensure that you install the SAP 64-bit libraries. Remove any SAP 32-bit libraries before you upgrade to WebSphere® Cast Iron Hypervisor Edition Version 7. If there are any SAP 32-bit libraries that are installed, you cannot upgrade to WebSphere Cast Iron Hypervisor Edition Version 7.

### About this task

---

Use the Web Management Console (WMC) to upgrade to the latest version of Cast Iron operating system by uploading an upgrade image onto the appliance. This upgrade process only replaces or adds necessary files, it does not destroy any data. Note, the WMC forces any running projects to be undeployed and stops any active orchestration jobs currently running on the appliance during the upgrade procedure. After the appliance is upgraded, you cannot undo or roll back to the previous version.

Note: Upgrades can also be applied through the Command Line Interface (CLI). For more information, see the system update command in the *CLI Reference Guide*.

### Procedure

---

1. Download the WebSphere Cast Iron Hypervisor firmware upgrade file (type = vcrypt2) from Fix Central:  
<http://www.ibm.com/support/fixcentral/>.
2. Download the appliance upgrade image file to a location you can access from your Windows workstation, for example:  
C:\Desktop.

3. Use the WMC to log into the appliance that is running the Cast Iron operating system.
4. In the WMC, select Set Up > Install/Upgrade. The Install/Upgrade Appliance and Libraries panel is displayed.
5. In the Upgrade Appliance section, click Install Upgrade. The upgrade wizard is displayed.
6. Click Next.
7. Click Next to check for running projects. If projects are running on the appliance, the upgrade wizard asks for confirmation to stop the projects before proceeding. Click Continue to proceed. If there are no projects running on the appliance, a green check mark is displayed. Click Next.
8. In the text field, either specify the path to the appliance upgrade image file or browse to locate the appliance upgrade image file.
9. Click Next. In the Upgrade panel, the following message is displayed: Upload in progress. Please wait. A progress bar displays the status of the upload. When the upload is complete, the WMC validates the upgrade.
10. Verify the patch version number and click Install.
11. A series of dialog boxes are displayed asking for confirmation to stop any running orchestrations. Click OK and OK. The Upgrade Appliance panel displays. After the upgrade completes in about 5 minutes, the appliance reboots and the following message is displayed in the Upgrade Appliance panel: Installation Successful! Please wait. The Appliance is rebooting. If a console window to the appliance is open, the rebooting messages are displayed.
12. Use the WMC to log into the appliance. You might need to click the refresh button of the browser.

## What to do next

---

Using the WMC, redeploy any projects that were undeployed by this upgrade procedure. Upgrade to a Studio version compatible with the installed Cast Iron operating system. For more information about appliance and Studio compatibility, see the Compatibility section of the *Cast Iron Operating System Release Notes*® or the *Cast Iron Studio Release Notes*. For the procedure on upgrading Studio, see *Installing Studio*.

---

[Feedback](#) | [Notices](#)

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## Deploying an OVF template

---

You can deploy an OVF template which creates a virtual machine with the CIOS and VMwareTools installed. After the OVF template is deployed, you can manage the virtual appliance from the vSphere Client Console tab, as you would manage a physical integration appliance through the CLI.

### Before you begin

---

Note: The steps in this section apply to VMware only. Note also that after deploying an OVF template, the vSphere client might display the VMware Tools status as "Not Installed." However, if the OVF template is correctly deployed, VMware Tools are installed on the virtual machine.

### Procedure

---

1. Download a local copy of the CIOS OVA file. It is recommended that you download the OVA to a storage device that is accessible by the host machine, where the virtual machine will reside.
  2. In the VMware Infrastructure Client navigation pane, select the virtual machine on which to install the CIOS.
  3. Select File > Deploy OVF Template. The Deploy OVF Template Wizard is displayed.
  4. Choose an option to deploy the OVF template and specify the location of the OVF template, and click Next.
    - Deploy from file - Choose this option if the source OVF template is on the local file system.
    - Deploy from URL - Choose this option to download the OVF template from the Internet and enter a URL
  5. Verify the template details that display and click Next.
  6. Specify the name and location for the deployed template and click Next.
  7. Select a configuration option and click Next.
    - Standard - 1CPU, 4GB RAM
    - Enhanced - 2CPU, 8GB RAM
- The Host/Cluster page is displayed.

8. Select the host or cluster on which to run the deployed template, and click Next.
9. Select a resource pool, and click Next.
10. Select the datastore to which you want to store the virtual machine files, and click Next.
11. Map the networks used in the OVF template to networks in your inventory, by selecting the drop-down list in the Destination Networks column. Then click Next.
12. Verify the options you have specified and click Finish. The OVF template is deployed to your virtual machine.

## What to do next

---

After you have successfully deployed the OVF template, do not attempt to modify the settings for hard disk 1 or hard disk 2.

---

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## Configuring to use DHCP addressing

---

You can configure a virtual machine in a network to use a DHCP server for addressing.

### Procedure

---

1. Using the virtual machine console, log in to the virtual machine with the default user name and password.
  - localhost login: admin
  - Password: !n0r1t5@CThe following prompt displays:

```
localhost>
```

Note: The keyboard mapping of the vSphere Client terminal uses a US layout. If your workstation keyboard uses another layout, your login attempt might fail.
2. Assign the host name and IP address in the DNS server for the following interfaces:
  - Host name and IP address for the data interface
  - Host name and IP address for the management interfaceThe data interface is used by the integration appliance during run time to communicate to endpoints on the network, for example a database server. The management interface is used to communicate with the integration appliance from the WMC.
3. Enter the following settings:
  - MAC address for the data interface
  - Hostname assigned to the data interface in the DNS server
  - MAC address for the management interface
  - Hostname assigned to the management interface in the DNS server
  - Hostname assigned to the BMC interface in the DNS server
4. Apply the network settings: `localhost> net restart`
5. Monitor the status of the system, by repetitively issuing the following command: `localhost> system show status`. As the network settings are applied, the network status transitions through the following states:
  - Up
  - Stopping
  - Starting
  - Up
6. Monitor the state of the network: `localhost> net show status`. The network settings have been applied when status of the Current activity lists Monitoring network.
7. Verify the data and management interface network settings, using the following command: `localhost> net show active`
8. Reset any address that is incorrect. If you run `net show all`, the EData display as disabled.
9. Verify the connection to the management interface using the WMC.

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## Configuring to use static addressing

---

You can configure a virtual machine in a network to use static addressing.

### About this task

---

Network settings you specify are only committed to the Integration Appliance when you run the `net restart` command. If a system reboot occurs before you commit your network settings, those network settings are lost.

### Procedure

---

1. Using the virtual machine console, log in to the virtual machine with the default user name and password.
  - o localhost login: admin
  - o Password: !n0rlt5@CThe following prompt is displayed::

```
localhost>
```

  2. Assign the host name and IP address in the DNS server for the following interfaces:
    - o Host name and IP address for the data interface
    - o Host name and IP address for the management interfaceThe data interface is used by the integration appliance during run time to communicate to endpoints on the network, for example a database server. The management interface is used to communicate with the integration appliance from the WMC.
  3. Set the host name for the management interface: `localhost> net set hostname static appliancehostname`. Once the host machine is restarted at the end of this procedure, the prompt changes to the following setting:

```
hostname>
```
  4. Set the DNS domain name: `localhost> net set domain static domain-name`
  5. Set the DNS name server: `localhost> net set nameserver static dns-ipaddress`
  6. Set the network address for the data interface: `localhost> net set interface edata address ipaddress mask netmask bcast broadcast`
  7. Set the network address for the management interface: `localhost> net set interface emgmt address ipaddress mask netmask bcast broadcast`
  8. Set the gateway address: `localhost> net set gateway static ip-address emgmt`
  9. Disable searching the domain list: `localhost> net set search none`
  10. Set the Network timeserver to the appropriate setting for your environment:
    - o If you have a timeserver on your network: `localhost> net set ntp static ntp-address`
    - o If you do not have a timeserver on your network: `localhost> net set ntp none`
  11. Review the settings: `localhost> net show memory`
  12. Apply the network settings: `localhost> net restart`
  13. Monitor the status of the system, by repetitively issuing the following command: `localhost> system show status` As the network settings are applied, the network status transitions through the following states:
    - o Up
    - o Stopping
    - o Starting
    - o UpNote: As network settings are applied, you can expect the runtime to be down.
  14. Monitor the state of the network: `hostname> net show status` The network settings have been applied when status of the Current activity lists Monitoring network.
  15. Verify the settings you entered using this command: `hostname> net show active`
  16. Reset any address that is incorrect. If you run `net show all`, the EData display as disabled.
  17. Log out `hostname> exit` The session closes.

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## Backing up and recovering virtual appliances

---

You can purchase the VMware Consolidated Backup add-on to handle a disaster recovery scenario for your virtual environment or you can use the Export/Import functionality of the virtual appliance.

For more information about VMware Consolidated Backup, see the VMware Consolidated Backup Guide.

The following topics describe how to export and import virtual appliance repositories and provide details about which components of the virtual appliance are affected by these operations.

- [Exporting a virtual appliance repository](#)

Export the project repository to create a backup of the virtual appliance. You can export all project configuration and user settings from the WMC to another location. The virtual appliance system logs are not exported when you export a repository.

- [Importing a virtual appliance repository](#)

When you import a repository, the WMC deletes all existing projects, project configurations, and job history. The virtual appliance system logs remain unaffected. Once you have imported a repository, you cannot roll back to a previous repository.

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## Exporting a virtual appliance repository

---

Export the project repository to create a backup of the virtual appliance. You can export all project configuration and user settings from the WMC to another location. The virtual appliance system logs are not exported when you export a repository.

### About this task

---

You can export a repository with the project configurations running. However, when you import this repository, the project configurations will all be in the undeployed state.

Use the WMC to export a virtual appliance repository.

Note: Encryption of virtual appliance disks utilizes the VMware-assigned UUID of the virtual appliance. As a result, attempting to clone and/or copy a virtual appliance yields a non-functioning clone/copy because such operations yield a new UUID. To create a back-up appliance, create a new a virtual appliance with the same configuration (for example: standard or enhanced) and use the CLI command `config save/load` to export/import virtual appliance settings and WMC repository functions. (Be aware, however, that these operations do not export/import data, including variables, stored on the disk or in memory as part of the process of the orchestration).

Note: VMotion remains a valid operation for migrating a virtual appliance to a new host.

### Procedure

---

1. From the Deploy tab, select Export Repository. The File Download window is displayed.
2. Click Save. The Save As window is displayed.
3. Specify the location where you would like to save the exported repository.
4. Click Save. The WMC exports a copy of the repository as a .tar.gz file.

**Parent topic:** [Backing up and recovering virtual appliances](#)

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## Importing a virtual appliance repository

---

When you import a repository, the WMC deletes all existing projects, project configurations, and job history. The virtual appliance system logs remain unaffected. Once you have imported a repository, you cannot roll back to a previous repository.

### Before you begin

---

You must stop and undeploy all project configurations on the WMC before you can import a repository. When the WMC successfully imports a repository, all project configurations are in an undeployed state. You can import repositories from CIOS version 3.7.1 to 6.x. Note: Before you import a repository from one virtual appliance to another, you must power off the virtual appliance from which you are importing a repository.

### About this task

---

In the steps that follow, you undeploy all projects, then use the WMC to import a virtual appliance repository:

### Procedure

---

1. From the Deploy tab, select Projects. All project configurations are displayed.
2. Verify that all the project configurations are undeployed.
3. If any project is not in the undeployed state, click the project configuration link, then stop and undeploy the project configuration.
4. From the Deploy tab, select Import Repository. The Import Repository page is displayed.
5. Specify the repository file you want to import or click Browse to search for a repository file.
6. Select one of the following import options:
  - o Project & User Settings - Imports all the contents of the repository file you select. All projects are imported in the undeployed state.
  - o Project Only - Imports only project information from the repository file you select. All projects are imported in the undeployed state.
  - o User Settings Only - Imports only the user setting information from the repository file you select. User setting information includes: network configurations, users and groups, licenses, job log parameters, log levels, notifications, downtime rules and passwords.
7. Click Import. A warning is displayed.
8. Click Import to verify that you would like to proceed with the import. The virtual appliance restarts and the WMC login window is displayed when the import is complete.
9. Log into the virtual appliance.
10. From the Deploy tab, select Projects to deploy all appropriate project configurations.

**Parent topic:** [Backing up and recovering virtual appliances](#)

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## WebSphere Cast Iron Docker Container

---

Docker containers helps to integrate and deploy solutions on different platform.

Cast Iron Docker Container helps you to deploy Cast Iron environment (without Cast Iron appliance) on Ubuntu server. This will enable you to overcome the need of a physical appliance or VMware instance.

- [Getting Started with Cast Iron Docker Container](#)
- [Creating a Cast Iron Docker Image](#)
- [Creating a Cast Iron Container using the Docker Image](#)
- [Working with Cast Iron Container](#)
- [Upgrading Cast Iron Instance in Cast Iron Container](#)
- [Migrating Projects from Cast Iron Appliance to Cast Iron Container](#)
- [Troubleshooting in Cast Iron Container](#)

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## Getting Started with Cast Iron Docker Container

---

Following are the minimum requirements for creating a WebSphere Cast Iron Docker Container image and deploy it as a Docker container:

### Requirements

- Ubuntu 14.04 64-bit server
- 32 GB RAM
- 8 CPU
- Docker package version 1.8 on Ubuntu 14.04
- 100 GB HDD space
- 2 Ethernet ports (one for Cast Iron Management Console and one for Cast Iron Data)

Note: Cast Iron does not have control over the IP addresses of these ports as these ports are given by the underlying Ubuntu.

### Supported Environments

- As a standalone on-premise Ubuntu server 14.04
- Ubuntu on Cloud such as Soft Layer, Amazon EC 2, Microsoft Azure

Note:

- The default website to log into after installation:  
`https://<castiron IP>:443`
- No support for LDAP in docker containers.

**Parent topic:** [WebSphere Cast Iron Docker Container](#)

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[Feedback](#) | [Notices](#)

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## Creating a Cast Iron Docker Image

---

## Before you begin

---

- Download the Cast Iron docker tar file from the fix central (passport).
- Transfer the downloaded Cast Iron docker tar file to the Ubuntu server that has the Docker package.

## About this task

---

Use this task to create a Cast Iron Docker image using the Cast Iron Docker tar file.

## Procedure

---

1. In the Ubuntu server, extract the tar file using the following command:

```
tar xf <file name>.tar.gz
```

2. Navigate to the extracted folder and locate castiron\_docker folder.
3. Create the docker image by executing the following command:

```
docker build --no-cache -t castironv7510/<CI build number> castiron_docker
```

For example, `docker build --no-cache -t castironv7510/20160302-1536 castiron_docker`

## Results

---

You have successfully created a Cast Iron Docker Container.

Note:

On successful creation of the docker image, a message is displayed Successfully built <*docker image ID*>. You can verify the image by running the command `docker images`.

**Parent topic:** [WebSphere Cast Iron Docker Container](#)

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[Feedback](#) | [Notices](#)

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## Creating a Cast Iron Container using the Docker Image

---

## Before you begin

---

Make sure you have a proper Cast Iron Docker image created and available for deployment.

## About this task

---

Use this task to create a new Cast Iron container from a docker image.

Note: You can create and use only one Cast Iron container per single docker host as the container uses the docker host's network resources.

## Procedure

---

In the Ubuntu server (version 14.04), where you have your docker image, execute the following command:

```
docker run --net=host --pid=host -t -i -d <cast iron docker image ID>
```

For example, `docker run --net=host --pid=host -t -i -d castironv7510/20160302-1535`, where `castironv7510/20160302-1535` is the Cast Iron docker image ID.

## Results

---

On executing the above command, a Cast Iron container will be created along with a container ID. Use the Cast Iron Container ID to validate the Cast Iron Installation and configuration. The Cast Iron container ID is dynamically generated by Docker.

Note:

You can validate the Cast Iron Installation and configuration using the following command until you get the Cast Iron component Status.

```
docker logs -f <CI Container ID>
```

For example,

```
Cast Iron Component Status
-----
DerbyServer : Up
WMC         : Up
Maestro     : Up
Gateway     : Up
```

Also use Docker Host machine's ETH0 IP address to open Cast Iron Web Management Console and ensure it is accessible.

**Parent topic:** [WebSphere Cast Iron Docker Container](#)

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## Working with Cast Iron Container

---

### Before you begin

---

Log into the Cast Iron Container using the CI Container ID using the following command:

```
docker exec -it <CI Container ID> /bin/bash
```

For example. `docker exec -it 1f79e655352c536161313eb5e9ea8b0d5a72e0104358b106bb6b1e70892be022 /bin/bash`, where `1f79e655352c536161313eb5e9ea8b0d5a72e0104358b106bb6b1e70892be022` is the CI Container ID.

Note:

- There is no separate Cast Iron CLI prompt enabled in Docker platform hence you will be using the same Ubuntu prompt for various tasks.
- There is no direct communication to the Cast Iron Container using ssh or telnet. The only way to communicate is to log into the docker host system and use the above command to login.

### About this task

---

Use this task to login and interact with Cast Iron container.

### Procedure

---

Inside Cast Iron Container, to interact with Cast Iron, use the command `castiron`.

```
castiron
Usage : castiron <options>
--start  start all the castiron process
--stop   stop all the castiron process
--restart restart all the castiron process
--status  print status of all the castiron process
--version print current version of castiron
```

```
--upgrade <castiron upgrade file path> upgrades castiron to a new version  
--generatepostmortem generate postmortem logs
```

Note: Cast Iron logs will be available under /var/log for any troubleshooting.

**Warning**

Note: It is recommendation not to install any additional applications/Ubuntu packages which may lead to change in Cast Iron instance and make it not usable.

## Results

---

Successful login and usage of Cast Iron.

**Parent topic:** [WebSphere Cast Iron Docker Container](#)

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### [Feedback | Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.VAuserguide.doc/CIDC\\_workingwith\\_cic.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.VAuserguide.doc/CIDC_workingwith_cic.html)

## Upgrading Cast Iron Instance in Cast Iron Container

---

### Before you begin

---

- Download the Cast Iron docker tar file (the version which you want to upgrade) from the fix central (passport).
- Transfer to the Ubuntu server that has the Docker package.
- Transfer the tar file to the Cast Iron Docker container using the following command:

```
docker cp <CI docker file name>.tar.gz <existing CI Container ID>:/var/tmp/
```

For example, docker cp 7.5.1.0-docker\_build-20160302-1709\_H8\_64.tar.gz  
1f79e655352c536161313eb5e9ea8b0d5a72e0104358b106bb6b1e70892be022:/var/tmp/, where  
1f79e655352c536161313eb5e9ea8b0d5a72e0104358b106bb6b1e70892be022 is the container ID.

### About this task

---

Use this task to upgrade an existing Cast Iron instance in Cast Iron Container with the later versions downloaded from the fix central.

### Procedure

---

1. Login into Cast Iron Web management console.
2. Stop and undeploy all the Cast Iron projects.
3. Stop secure connector instances, if you have already configured.
4. From the Cast Iron Container CLI prompt, execute the following command to upgrade to the latest version.

```
castiron --upgrade /var/tmp/<CI Docker file name>.tar.gz
```

For example, castiron --upgrade /var/tmp/7.5.1.0-docker\_build-20160302-1709\_H8\_64.tar.gz, where  
7.5.1.0-docker\_build-20160302-1709\_H8\_64 is the CI Docker file name.

## Results

---

On successful upgrade, you will be displayed with a similar message as the following:

Current Cast Iron Version (Before Upgrade)

```
Product: IBM WebSphere Cast Iron  
Version: Cast Iron Operating System 7.5.1.0.20160302-1709_H8_64 (Mar 02 2016)  
Cast Iron Container Id: 1f79e655352c
```

Stopping all the Cast Iron Components before upgrade

Stopping Gateway...

```
Stopping Maestro...
Stopping Web Management Console(WMC)...
Stopping DerbyServer...
Taking backup of older Cast Iron version
Upgrading Cast Iron components
Upgrade Completed
Current Cast Iron Version (After Upgrade)
```

```
Product: IBM WebSphere Cast Iron
Version: Cast Iron Operating System 7.5.1.0.20160302-1709_H8_64 (Mar 02 2016)
Cast Iron Container Id: 1f79e655352c
```

```
Cast Iron Component Status
```

```
-----
DerbyServer : Up
WMC : Up
Maestro : Up
Gateway : Up
```

**Parent topic:** [WebSphere Cast Iron Docker Container](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.VAuserguide.doc/CIDC\\_upgrading\\_ciinstance\\_cic.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.VAuserguide.doc/CIDC_upgrading_ciinstance_cic.html)

## Migrating Projects from Cast Iron Appliance to Cast Iron Container

---

### Before you begin

---

- From Cast Iron Appliance, export all the projects through Web Management Console Export Project option (as a .tar file).
- Transfer the .tar file to the system where you have access to the Cast Iron Container Web Management Console.

### About this task

---

Use this task to migrate projects from Cast Iron Appliance to Cast Iron Container.

### Procedure

---

- Login into Cast Iron Web management Console of the Cast Iron Container.
- Import the .tar file containing the projects to the Cast Iron Container using Web Management Console's Import Project option.
- Start all the projects and verify the same.

Note:

- Chrome web browser is recommended for uploading any files to Cast Iron Web Management Console.
- Secure connectors need to be created afresh and configured in the project.
- Certificates needs to be manually imported in the Cast Iron Containers Web Management Console.
- Import all the third party libraries accordingly.

### Results

---

You have successfully migrated projects from Cast Iron Appliance to Cast Iron Container.

**Parent topic:** [WebSphere Cast Iron Docker Container](#)

---

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## Troubleshooting in Cast Iron Container

---

### Deprecated functionality

---

Following are the features/functions of Appliance that are deprecated in Cast Iron Container:

- No Cast Iron CLI prompt
- No hardware status in Web Management Console
- No log notifications in Web Management Console

### Getting the Cast Iron Container log for help

---

All the Cast Iron Container log will be available inside the Docker under the folder /var/log.

Also you can generate the post mortem logs using the command:

```
castiron --generatepostmortem
```

postmortem tar is available at /var/tmp/postmortem\_all.tar.gz.

**Parent topic:** [WebSphere Cast Iron Docker Container](#)

---

[Feedback](#) | [Notices](#)

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## Integration Appliance Monitoring Options

---

Overview of monitoring options available on the Integration Appliance.

The Integration Appliance logs system events, such as a fan failing or Standby machine assuming the active role in an HA pair. You can view these system events from the Web Management Console (WMC). When system events occur, individual users as well as network management systems can receive notification alerts from the Integration Appliance via email and SNMP traps respectively. Using SNMP, network management systems can also poll an Integration Appliance to actively monitor resources such as disk usage, memory usage, and garbage collection cycles. For more information about systems and notification severity levels you can monitor from the WMC, see the management console online help.

While any user can view the systems events log and monitor disk and memory usage from the WMC, you must create a notification policy to receive alerts from the Integration Appliance. Use the WMC to create a notification policy. Notification policies contain details about which systems to monitor, notification levels to monitor, and notification alert recipients. The Integration Appliance only sends alerts when an event meets or exceeds the notification level specified in a notification policy. For more information about creating notification policies and notification levels, see the management console online help.

The Cast Iron Notifications Reference provides details about reading and using Cast Iron SNMP MIB and individual messages from each Cast Iron MIB module. The version of SNMP is SNMPv1. (Although the MIBs are set to SNMP version 2, Cast Iron generates SNMPv1 traps only.)

---

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## About the Cast Iron SNMP MIB

---

An overview of the Cast Iron SNMP MIB and a list of available MIB modules.

As a network element, the Integration Appliance is able to respond to requests from a network management system. The Integration Appliance is also able to send notifications to the network management system about events that occur on the Integration Appliance. This communication between the Integration Appliance and your network management system allows you to use traps to monitor the Integration Appliance.

Whether you choose to receive notification alerts from the Integration Appliance by enabling SNMP traps or you choose to actively monitor Integration Appliance activities like memory usage by polling the Integration Appliance, the Cast Iron MIB provides data structure and defines content type for the information exchange.

When you use the WMC to download the Cast Iron MIB, you are downloading one file that contains multiple MIB definitions. Some SNMP MIB parsers are unable to read a file that contains multiple MIB modules, so you must separate each MIB module into individual files. For more information about generating separate MIB module files, see [Downloading the Cast Iron SNMP MIB](#).

The Cast Iron MIB contains notification messages for the following modules:

- [Downloading the Cast Iron SNMP MIB](#)  
Provides information about downloading each MIB module in the Cast Iron SNMP MIB as a separate file.
- [Reading the Cast Iron SNMP MIB](#)  
Provides examples of how to read and organize the content of Cast Iron SNMP MIBs.

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/about\\_the\\_castiron\\_snmp\\_mib.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/about_the_castiron_snmp_mib.html)

## Downloading the Cast Iron SNMP MIB

---

Provides information about downloading each MIB module in the Cast Iron SNMP MIB as a separate file.

Use the Web Management Console (WMC) to download the Cast Iron SNMP MIB from an Integration Appliance. For more information about how to use the WMC to download the Cast Iron SNMP MIB, see the management console online help.

The WMC downloads the Cast Iron SNMP MIB as a single text file. This text file is comprised of multiple sections, where each section is a full MIB module. For example, the NetSuite Module is defined in one section and the Salesforce Module is defined in another section.

Note: If your SNMP MIB parser is unable to read a file that contains multiple MIB modules, separate each section (MIB module) into individual files. On Linux, you can use the following script to generate a separate file for each MIB module in the Cast Iron SNMP MIB.

```
#!/bin/bash

sed -ne 's/DEFINITIONS ::= BEGIN.*//p' castiron.sys.mib |
while read mib; do
echo $mib
sed -ne "/^$mib/,/^END/p" castiron.sys.mib > $mib
done
```

**Parent topic:** [About the Cast Iron SNMP MIB](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/downloading\\_the\\_castiron\\_mib.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/downloading_the_castiron_mib.html)

## Reading the Cast Iron SNMP MIB

---

Provides examples of how to read and organize the content of Cast Iron SNMP MIBs.

Each MIB module has a module-identity, which describes the purpose for the MIB. For example, the NetSuite Module provides access to the NetSuite online service. Each MIB module also contains a comment section that provides a high-level overview of its contents. Content like the Object Summary lists the name and OID of every object in the MIB, much like a table of contents, and allows you to examine the layout and the type of data that is being provided.

In the following example, ciIaProjectSummary is an organizational node that contains general information about projects on the Integration Appliance. Like a directory, the ciIaProjectSummary organizational node contains object types that provide information about the number of projects, number of running orchestrations, number of stopped orchestrations, number of running jobs, number of completed jobs, and number of errored jobs.

```
-- ciIaProjectSummary          ciia.1.1.1
-- ciIaNbrProjects            ciia.1.1.1.1
-- ciIaNbrRunningOrchs        ciia.1.1.1.2
-- ciIaNbrStoppedOrchs       ciia.1.1.1.3
-- ciIaNbrRunningJobs         ciia.1.1.1.4
-- ciIaNbrCompletedJobs      ciia.1.1.1.5
-- ciIaNbrErroredJobs         ciia.1.1.1.6
```

To get more information about the meaning of one of the objects, search the file for the name of the object. For example, searching for ciIaNbrRunningJobs returns the following block of information:

```
ciIaNbrRunningJobs OBJECT-TYPE           -- ciia.1.1.1.4
  SYNTAX Unsigned32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Total number of currently running jobs.
   "
 ::= { ciIaProjectSummary 4 }
```

where:

- **ciIaNbrRunningJobs OBJECT-TYPE** - Defines the name of the object.  
Note: Next to the object name, there is a shortened form of the OID ("ciia.1.1.1.4").
- **SYNTAX Unsigned32** - An unsigned integer whose value could go up or down over time.
- **MAX-ACCESS read-only** - A read-only value that the system manager can ask for but cannot change.
- **STATUS** -
- **DESCRIPTION** - Describes the object.

Polling for ProjectSummary information retrieves data that is similar to the following example:

```
$ snmpwalk -v 2c -c public -M "+/home/choller/mibs" -m "+CASTIRON-IA-MIB" flintstone2
ciIaProjectSummary
CASTIRON-IA-MIB::ciIaNbrProjects.0 = Gauge32: 2
CASTIRON-IA-MIB::ciIaNbrRunningOrchs.0 = Gauge32: 0
CASTIRON-IA-MIB::ciIaNbrStoppedOrchs.0 = Gauge32: 14
CASTIRON-IA-MIB::ciIaNbrRunningJobs.0 = Gauge32: 0
CASTIRON-IA-MIB::ciIaNbrCompletedJobs.0 = Gauge32: 0
CASTIRON-IA-MIB::ciIaNbrErroredJobs.0 = Gauge32: 0
```

ciIaProjectTable is another example of an organizational node that contains information about each project on the Integration Appliance. Like a directory, the ciIaProjectTable organizational node contains object types that provide information like the project name, project version, project configuration, project state, and so on.

```
-- ciIaProjectTable          ciia.1.1.2
-- ciIaProjectEntry           ciia.1.1.2.1
-- ciIaProjEntryIndex         ciia.1.1.2.1.1
-- ciIaProjEntryName          ciia.1.1.2.1.2
```

```
-- ciIaProjEntryVersion          cia.1.1.2.1.3
-- ciIaProjEntryConfig           cia.1.1.2.1.4
-- ciIaProjEntryState            cia.1.1.2.1.5
-- ciIaProjEntryNbrRunning       cia.1.1.2.1.6
-- ciIaProjEntryNbrCompleted     cia.1.1.2.1.7
-- ciIaProjEntryNbrErrored       cia.1.1.2.1.8
-- ciIaProjEntryTimePublished    cia.1.1.2.1.9
```

Polling for ProjectTable information retrieves data that is similar to the following example:

```
$ snmpwalk -v 2c -c public -M "+/home/choller/mibs" -m "+CASTIRON-IA-MIB" flintstone2
ciIaProjectSummary
CASTIRON-IA-MIB::ciIaNbrProjects.0 = Gauge32: 2
CASTIRON-IA-MIB::ciIaNbrRunningOrchs.0 = Gauge32: 0
CASTIRON-IA-MIB::ciIaNbrStoppedOrchs.0 = Gauge32: 14
CASTIRON-IA-MIB::ciIaNbrRunningJobs.0 = Gauge32: 0
CASTIRON-IA-MIB::ciIaNbrCompletedJobs.0 = Gauge32: 0
CASTIRON-IA-MIB::ciIaNbrErroredJobs.0 = Gauge32: 0
```

The object types are much like columns in a table that store data generated by events that occur on the Integration Appliance. For example, publishing and cloning projects are events that generate ProjectTable data. You can poll the Integration Appliance to retrieve this data. Data for two events: publishing a project and cloning a project are displayed in the following example:

```
$ snmpwalk -v 2c -c public -M "+/home/choller/mibs" -m "+CASTIRON-IA-MIB" flintstone2 ciIaProjectTable
CASTIRON-IA-MIB::ciIaProjEntryName.98304 = STRING: OnlineLicensing
CASTIRON-IA-MIB::ciIaProjEntryName.98305 = STRING: OnlineLicensing
CASTIRON-IA-MIB::ciIaProjEntryVersion.98304 = STRING: 1.0
CASTIRON-IA-MIB::ciIaProjEntryVersion.98305 = STRING: 1.0
CASTIRON-IA-MIB::ciIaProjEntryConfig.98304 = STRING: Default
CASTIRON-IA-MIB::ciIaProjEntryConfig.98305 = STRING: OnlineLicensingClone
CASTIRON-IA-MIB::ciIaProjEntryState.98304 = INTEGER: undeployed(1)
CASTIRON-IA-MIB::ciIaProjEntryState.98305 = INTEGER: undeployed(1)
CASTIRON-IA-MIB::ciIaProjEntryNbrRunning.98304 = Gauge32: 0
CASTIRON-IA-MIB::ciIaProjEntryNbrRunning.98305 = Gauge32: 0
CASTIRON-IA-MIB::ciIaProjEntryNbrCompleted.98304 = Counter32: 0
CASTIRON-IA-MIB::ciIaProjEntryNbrCompleted.98305 = Counter32: 0
CASTIRON-IA-MIB::ciIaProjEntryNbrErrored.98304 = Counter32: 0
CASTIRON-IA-MIB::ciIaProjEntryNbrErrored.98305 = Counter32: 0
CASTIRON-IA-MIB::ciIaProjEntryTimePublished.98304 = STRING: 2009-6-12,16:36:20.0,+0:0
CASTIRON-IA-MIB::ciIaProjEntryTimePublished.98305 = STRING: 2009-6-12,16:36
```

As more events occur, the output can become increasingly difficult to read. To generate a more readable output, it is recommended to use the `snmpstable` command to display the data in a table format. Data for each event displays as a new row.

```
$ snmpstable -v 2c -c public -M "+/home/choller/mibs" -m "+CASTIRON-IA-MIB" flintstone2
ciIaProjectTable
SNMP table: CASTIRON-IA-MIB::ciIaProjectTable

  ciIaProjEntryName ciIaProjEntryVersion ciIaProjEntryConfig ciIaProjEntryState
  ciIaProjEntryNbrRunning ciIaProjEntryNbrCompleted ciIaProjEntryNbrErrored ciIaProjEntryTimePublished
    OnlineLicensing           1.0          Default      undeployed
  0                      0              0  2009-6-12,16:36:20.0,+0:0
    OnlineLicensing           1.0  OnlineLicensingClone      undeployed
  0                      0              0  2009-6-12,16:36:20.0,+0:0
```

**Parent topic:** [About the Cast Iron SNMP MIB](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/reading\\_the\\_castiron\\_snmp\\_mib.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/reading_the_castiron_snmp_mib.html)

## SNMP Items Available Using SNMP Get

Presents a table of OID trees that you can poll using SNMP Get.

Each entry in the table represents many individual items. Use snmpwalk or another SNMP polling utility to see the complete list. You can poll the following OID trees:

<b>OID</b>	<b>SNMP Name</b>	<b>Notes</b>
.1.3.6.1.2.1.1	SNMPv2-MIB::system	Â
.1.3.6.1.2.1.2	IF-MIB::interfaces	Â
.1.3.6.1.2.1.4	IP-MIB::ip	Â
.1.3.6.1.2.1.5	IP-MIB::icmp	Â
.1.3.6.1.2.1.6	TCP-MIB::tcp	Â
.1.3.6.1.2.1.7	UDP-MIB::udp	Â
.1.3.6.1.2.1.11	SNMPv2-MIB::snmp	Â
.1.3.6.1.2.1.25.1	HOST-RESOURCES-MIB::hrSystem	Excluding .1.3.6.1.2.1.25.1.3 HOST-RESOURCES-MIB::hrSystemInitialLoadDevice  Excluding .1.3.6.1.2.1.25.1.4 HOST-RESOURCES-MIB::hrSystemInitialLoadParameters
.1.3.6.1.2.1.25.2	HOST-RESOURCES-MIB::hrStorage	Â
.1.3.6.1.2.1.25.3	HOST-RESOURCES-MIB::hrDevice	Â
.1.3.6.1.4.1.202 1.4	UCD-SNMP-MIB::memory	Â
.1.3.6.1.4.1.202 1.10	UCD-SNMP-MIB::laTable	CPU Load Average
.1.3.6.1.4.1.202 1.11	UCD-SNMP-MIB::systemStats	Â
.1.3.6.1.4.1.133 36	CASTIRON-REGISTRATIONS-MIB::castironsys	See the Cast Iron MIB, particularly CASTIRON-IA-MIB.

---

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## Using Traps to Monitor Appliance Health

---

Recommendations for configuring alerts that monitor appliance health.

When monitoring the health of the Integration Appliance, you can use one or both of the following methods:

- Poll - Actively monitor runtime resource usage including appliance garbage collection cycles, appliance memory usage, and appliance disk usage.
- Trap - Receive notifications indicating hardware situations such as failed fans, high temperatures, or failed disks. For more information about hardware related SNMP traps, see [About the Platform Module](#).

For more information about creating and enabling notification alerts, see the WMC Online Help or the Cast Iron Web Management Console Guide in the IBM WebSphere Cast Iron Information Center.

[Table 1](#) provides recommended thresholds for notifications regarding garbage collection, memory usage, and disk usage.

- **Garbage Collection** - This parameter counts the number of garbage collections that have occurred since the last system restart. Garbage collection that occurs at a rate over the recommended threshold can indicate that the appliance is overworked and might start to experience performance issues.

- **Memory Usage** - This parameter measures the percentage of total memory in use, expressed in hundredths of a percent. This number is updated after each garbage collection.  
Note: This value is provided as an integer, but the MIB causes the SNMP Manager to alter its displayed value by a hundredths of a percent. For example: a value of '1234' displays as '12.34'! The SNMP Management tool should handle this automatically, but verify that it does so.
- **Disk Usage** - This parameter measures the percentage of total work-in-progress (WIP) disk space that is in use, expressed in hundredths of a percent. The percentage of disk usage determines job purging activities for the appliance.

Table 1. Recommended Notification Thresholds

Parameters to Monitor	Recommended Thresholds	SNMP Name and OID
Garbage Collection	Create a notification that triggers an alert if this value changes quickly, by more than 6 counts in a 1-minute time period.	CASTIRON-IA-MIB::ciIaResNbrGarbageCollects .1.3.6.1.4.1.13336.2.2.2.1.1.2.1.0
Memory Usage	Create a notification that triggers an alert if this value goes over 80% (raw value of 8000).	CASTIRON-IA-MIB::ciIaResPctMemoryUsed .1.3.6.1.4.1.13336.2.2.2.1.1.2.2.0
Disk Usage	Create a notifications triggers an alert if this value goes over 75% (raw value of 7500).	CASTIRON-IA-MIB::ciIaResPctWipFull .1.3.6.1.4.1.13336.2.2.2.1.1.2.3.0

Note: The parameters to monitor, described in the table above, are for SNMP polling only.

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## Archive Module

The Archive Module provides activities that allow creating and reading compressed archives. This section contains details for the messages delivered from the Archive Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the Archive Module.

MIB Name : *CASTIRON-COMP-ARCHIVE-MIB*

MIB OID : .1.3.6.1.4.1.13336.2.2.3.4

The following table provides an alphabetical list of all notifications that can be issued by the Archive Module.

Table 1. Notifications issued by the Archive Module

Notification	Level	System	Description
<a href="#">ArchiveDone</a>	Info	Orchestration	Activity has successfully completed archiving.
<a href="#">ArchiveEntryBlank</a>	Severe	Orchestration	Archive input entry does not have any content.
<a href="#">ArchiverCreated</a>	Info	Orchestration	Activity has successfully created an archiver for archiving.
<a href="#">ErrorIdentifyArchive</a>	Severe	Orchestration	There was an error identifying the archive entry.
<a href="#">ErrorUnZipOperation</a>	Severe	Orchestration	There was an error performing unzip operation.
<a href="#">ErrorZipOperation</a>	Severe	Orchestration	There was an error performing zip operation.
<a href="#">IncorrectParameters</a>	Severe	Orchestration	Parameters provided to the activity are invalid.
<a href="#">InvalidArchiveEntry</a>	Severe	Orchestration	There was an error reading archive entry.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
<a href="#">InvalidArchiveFormat</a>	Severe	Orchestration	Activity could not create an archiver for the supplied archiving format. This format might not be supported by the activity.
<a href="#">InvalidBzipEntry</a>	Severe	Orchestration	The bzip entry has more than one entry.
<a href="#">InvalidDateTime</a>	Warning	Orchestration	Error occurred while parsing datetime from archive entries.
<a href="#">InvalidGzipEntry</a>	Severe	Orchestration	The gzip entry has more than one entry.
<a href="#">InvalidNumInArchEntry</a>	Warning	Orchestration	The numeric value in archive entry is not valid.
<a href="#">InvalidUnArchFormat</a>	Severe	Orchestration	Activity could not create an unarchiver for the supplied archiving format. This format might not be supported by the activity.
<a href="#">InvalidUnarchiveInput</a>	Severe	Orchestration	The input to unarchive is invalid.
<a href="#">UnArchiverCreated</a>	Info	Orchestration	Activity has successfully created an unarchiver for unarchiving.
<a href="#">UnarchiveDone</a>	Info	Orchestration	Activity has successfully completed unarchiving.
<a href="#">ValidationError</a>	Severe	Orchestration	The input entries were not successfully validated against the schema.
<a href="#">ValidationFine</a>	Info	Orchestration	The input entries were successfully validated against the schema.

- [Archive Operation Notifications](#)

Provides a comprehensive list of operation notifications sent from the Archive Module.

#### [Feedback | Notices](#)

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## Archive Operation Notifications

Provides a comprehensive list of operation notifications sent from the Archive Module.

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**Parent topic:** [Archive Module](#)

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## ArchiveDone

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Activity has successfully completed archiving.

Level : *Info*

Log Message : *Archiving done successfully.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-ARCHIVE-MIB::ciC4oArchiveDoneEv17*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.4.1.2*

SNMP Trap Number : *17*

## Variables

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The ArchiveDone message contains the following variables:

Table 1. ArchiveDone Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : <i>CASTIRON-IA-MIB::ciIaPlatSerialNumber</i></li> <li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.2.1.1.3.3</i></li> </ul>
<b>2. Severity</b>
Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## ArchiveEntryBlank

Archive input entry does not have any content.

Level : *Severe*

Log Message : *Input entry has no content or it's a blank entry.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-ARCHIVE-MIB::ciC4oArchiveEntryBlankEv19

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.4.1.2

SNMP Trap Number : 19

## Variables

The ArchiveEntryBlank message contains the following variables:

Table 1. ArchiveEntryBlank Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## ArchiverCreated

Activity has successfully created an archiver for archiving.

Level : *Info*

Log Message : *Archiver created successfully, now performing archiving.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-ARCHIVE-MIB::ciC4oArchiverCreatedEv15

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.4.1.2

SNMP Trap Number : 15

## Variables

The ArchiverCreated message contains the following variables:

Table 1. ArchiverCreated Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## ErrorIdentifyArchive

There was an error identifying the archive entry.

Level : *Severe*

Log Message : *Error identifying archive. Message is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-ARCHIVE-MIB::ciC4oErrorIdentifyArchiveEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.4.1.2

SNMP Trap Number : 7

## Variables

The ErrorIdentifyArchive message contains the following variables:

Table 1. ErrorIdentifyArchive Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## ErrorUnZipOperation

There was an error performing unzip operation.

Level : Severe

Log Message : *Error occurred while unzip operation. Message is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-ARCHIVE-MIB::ciC4oErrorUnZipOperationEv12

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.4.1.2

SNMP Trap Number : 12

## Variables

The ErrorUnZipOperation message contains the following variables:

Table 1. ErrorUnZipOperation Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## ErrorZipOperation

There was an error performing zip operation.

Level : Severe

Log Message : *Error occurred while zip operation. Message is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-ARCHIVE-MIB::ciC4oErrorZipOperationEv11

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.4.1.2

SNMP Trap Number : 11

## Variables

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The ErrorZipOperation message contains the following variables:

Table 1. ErrorZipOperation Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## IncorrectParameters

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Parameters provided to the activity are invalid.

Level : Severe

Log Message : *Binding parameters supplied are invalid.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-ARCHIVE-MIB::ciC4oIncorrectParametersEv1*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.4.1.2*

SNMP Trap Number : *1*

## Variables

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The IncorrectParameters message contains the following variables:

Table 1. IncorrectParameters Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>










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## InvalidArchiveEntry

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There was an error reading archive entry.

Level : *Severe*

Log Message : Error while reading archive entry. Message is: {Message}

System : Orchestration

SNMP Name : CASTIRON-COMP-ARCHIVE-MIB::ciC4oInvalidArchiveEntryEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.4.1.2

SNMP Trap Number : 6

## Variables

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The InvalidArchiveEntry message contains the following variables:

Table 1. InvalidArchiveEntry Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## InvalidArchiveFormat

Activity could not create an archiver for the supplied archiving format. This format might not be supported by the activity.

Level : Severe

Log Message : Could not find an Archiver for supplied archive type: {FormatName}

System : Orchestration

SNMP Name : CASTIRON-COMP-ARCHIVE-MIB::ciC4oInvalidArchiveFormatEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.4.1.2

SNMP Trap Number : 2

## Variables

The InvalidArchiveFormat message contains the following variables:

Table 1. InvalidArchiveFormat Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. FormatName</b>  The archive format which is not supported. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-ARCHIVE-MIB::ciC4oEv2FormatName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.4.1.2.1.2.1</li></ul>

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## InvalidBzipEntry

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The bzip entry has more than one entry.

Level : *Severe*

Log Message : *More than one entries found for BZIP2 operation.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-ARCHIVE-MIB::ciC4oInvalidBzipEntryEv9*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.4.1.2*

SNMP Trap Number : *9*

## Variables

---

The InvalidBzipEntry message contains the following variables:

Table 1. InvalidBzipEntry Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/archive/archive\\_operation\\_invalidbzip\\_entry\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/archive/archive_operation_invalidbzip_entry_message.html)

## InvalidDateTime

---

Error occurred while parsing datetime from archive entries.

Level : *Warning*

Log Message : *Error while parsing datetime from archive entries. Message is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-ARCHIVE-MIB::ciC4oInvalidDateTimeEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.4.1.2

SNMP Trap Number : 4

## Variables

---

The InvalidDateTime message contains the following variables:

Table 1. InvalidDateTime Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. Message

Textual description of the error.

- **Type :** String
- **SNMP Object Name :** CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID :** .1.3.6.1.4.1.13336.2.2.1.2.2

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## InvalidGzipEntry

---

The gzip entry has more than one entry.

Level : *Severe*

Log Message : *More than one entries found for GZIP operation.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-ARCHIVE-MIB::ciC4oInvalidGzipEntryEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.4.1.2

SNMP Trap Number : 8

## Variables

---

The InvalidGzipEntry message contains the following variables:

Table 1. InvalidGzipEntry Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type :** String
- **SNMP Object Name :** CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID :** 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type :** Integer
- **SNMP Object Name :** CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID :** 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type :** String
- **SNMP Object Name :** CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID :** 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## InvalidNumInArchEntry

The numeric value in archive entry is not valid.

Level : *Warning*

Log Message : *Invalid numeric value found in archive entries. Message is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-ARCHIVE-MIB::ciC4oInvalidNumInArchEntryEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.4.1.2

SNMP Trap Number : 5

## Variables

The InvalidNumInArchEntry message contains the following variables:

Table 1. InvalidNumInArchEntry Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## InvalidUnArchFormat

---

Activity could not create an unarchiver for the supplied archiving format. This format might not be supported by the activity.

Level : Severe

Log Message : *Invalid or unsupported archive format.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-ARCHIVE-MIB::ciC4oInvalidUnArchFormatEv3

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.4.1.2

SNMP Trap Number : 3

## Variables

---

The InvalidUnArchFormat message contains the following variables:

Table 1. InvalidUnArchFormat Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity

- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## InvalidUnarchiveInput

The input to unarchive is invalid.

Level : *Severe*

Log Message : *Error while reading archive. Message is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-ARCHIVE-MIB::ciC4oInvalidUnarchiveInputEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.4.1.2

SNMP Trap Number : 10

## Variables

The InvalidUnarchiveInput message contains the following variables:

Table 1. InvalidUnarchiveInput Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## UnArchiverCreated

Activity has successfully created an unarchiver for unarchiving.

Level : *Info*

Log Message : *Unarchiver created successfully, now performing unarchiving.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-ARCHIVE-MIB::ciC4oUnArchiverCreatedEv16

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.4.1.2

SNMP Trap Number : 16

## Variables

The UnArchiverCreated message contains the following variables:

Table 1. UnArchiverCreated Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## UnarchiveDone

Activity has successfully completed unarchiving.

Level : *Info*

Log Message : *unarchiving done successfully.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-ARCHIVE-MIB::ciC4oUnarchiveDoneEv18

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.4.1.2

SNMP Trap Number : 18

## Variables

The UnarchiveDone message contains the following variables:

Table 1. UnarchiveDone Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## ValidationError

The input entries were not successfully validated against the schema.

Level : Severe

Log Message : *Input entries do not conform to the schema. Error Message is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-ARCHIVE-MIB::ciC4oValidationErrorEv14

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.4.1.2

SNMP Trap Number : 14

## Variables

The ValidationError message contains the following variables:

Table 1. ValidationError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## ValidationFine

The input entries were successfully validated against the schema.

Level : *Info*

Log Message : *Input entries successfully validated against schema.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-ARCHIVE-MIB::ciC4oValidationFineEv13

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.4.1.2

SNMP Trap Number : 13

## Variables

---

The ValidationFine message contains the following variables:

Table 1. ValidationFine Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## Crypto Service Module

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The Crypto Service Module provides activities that allow encrypting and decrypting the binary content. This section contains details for the messages delivered from the Crypto Service Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the Crypto Service Module.

MIB Name : **CASTIRON-COMP-CRYPTOSERVICE-MIB**

MIB OID : .1.3.6.1.4.1.13336.2.2.3.26

The following table provides an alphabetical list of all notifications that can be issued by the Crypto Service Module.

Table 1. Notifications issued by the Crypto Service Module

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
DecryptDone	Info	Orchestration	Activity completed decrypting the content.
DecryptStarted	Info	Orchestration	Activity started decrypting the content.
EncryptDone	Info	Orchestration	Activity completed encrypting the content.
EncryptStarted	Info	Orchestration	Activity started encrypting the content.
FoundPrivateKey	Info	Orchestration	Crypto Service was successfully able to read the private key from the java key store.
FoundPublicKey	Info	Orchestration	Crypto Service was successfully able to read the public key from the java key store.
IOException	Severe	Orchestration	Activity could not read or write to one of the Input / Output files.
InputEntryCount	Info	Orchestration	Activity successfully filtered specified number of entries.
IntegrityCheckFailed	Info	Orchestration	Message failed integrity check.
IntegrityCheckPassed	Info	Orchestration	Message passed integrity check.
InvalidAlgorithm	Severe	Orchestration	Activity could not find key because of invalid algorithm.
InvalidContent	Severe	Orchestration	The input content cannot be empty.
InvalidDateFormat	Severe	Orchestration	The date format is not valid. Enter date in dd-MM-yyyy format
InvalidFormat	Severe	Orchestration	Activity could not complete due invalid crypto format.
InvalidKeyOrPwd	Severe	Orchestration	Activity could not find a specified key handle in the java keystore with provided name and password.
InvalidKeyStore	Severe	Orchestration	Activity could not find a specified entry in key store.
InvalidKeyhandle	Severe	Orchestration	The input keyhandle cannot be empty.
InvalidPassword	Severe	Orchestration	The input password cannot be empty.
NoIntegrityCheck	Info	Orchestration	No Message integrity check.
PGPException	Severe	Orchestration	PGP Exception.

- [Crypto Service Operation Notifications](#)

Provides a comprehensive list of operation notifications sent from the Crypto Service Module.

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## Crypto Service Operation Notifications

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Provides a comprehensive list of operation notifications sent from the Crypto Service Module.

- [DecryptDone](#)  
Activity completed decrypting the content.
- [DecryptStarted](#)  
Activity started decrypting the content.
- [EncryptDone](#)  
Activity completed encrypting the content.
- [EncryptStarted](#)  
Activity started encrypting the content.

- [FoundPrivateKey](#)  
Crypto Service was successfully able to read the private key from the java key store.
- [FoundPublicKey](#)  
Crypto Service was successfully able to read the public key from the java key store.
- [IOException](#)  
Activity could not read or write to one of the Input / Output files.
- [InputEntryCount](#)  
Activity successfully filtered specified number of entries.
- [IntegrityCheckFailed](#)  
Message failed integrity check.
- [IntegrityCheckPassed](#)  
Message passed integrity check.
- [InvalidAlgorithm](#)  
Activity could not find key because of invalid algorithm.
- [InvalidContent](#)  
The input content cannot be empty.
- [InvalidDateFormat](#)  
The date format is not valid. Enter date in dd-MM-yyyy format
- [InvalidFormat](#)  
Activity could not complete due invalid crypto format.
- [InvalidKeyOrPwd](#)  
Activity could not find a specified key handle in the java keystore with provided name and password.
- [InvalidKeyStore](#)  
Activity could not find a specified entry in key store.
- [InvalidKeyhandle](#)  
The input keyhandle cannot be empty.
- [InvalidPassword](#)  
The input password cannot be empty.
- [NoIntegrityCheck](#)  
No Message integrity check.
- [PGPException](#)  
PGP Exception.

**Parent topic:** [Crypto Service Module](#)

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## **DecryptDone**

---

Activity completed decrypting the content.

Level : *Info*

Log Message : *Decryption Done.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oDecryptDoneEv11*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.26.1.2*

SNMP Trap Number : *11*

---

## **Variables**

The DecryptDone message contains the following variables:

Table 1. DecryptDone Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## DecryptStarted

---

Activity started decrypting the content.

Level : *Info*

Log Message : *Decryption Started*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oDecryptStartedEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.26.1.2

SNMP Trap Number : 10

## Variables

---

The DecryptStarted message contains the following variables:

Table 1. DecryptStarted Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## EncryptDone

---

Activity completed encrypting the content.

Level : *Info*

Log Message : *Encryption Done*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oEncryptDoneEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.26.1.2

SNMP Trap Number : 9

## Variables

---

The EncryptDone message contains the following variables:

Table 1. EncryptDone Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## EncryptStarted

---

Activity started encrypting the content.

Level : *Info*

Log Message : *Encryption Started.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oEncryptStartedEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.26.1.2

SNMP Trap Number : 8

## Variables

---

The EncryptStarted message contains the following variables:

Table 1. EncryptStarted Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## FoundPrivateKey

---

Crypto Service was successfully able to read the private key from the java key store.

Level : *Info*

Log Message : *Successfully Read Private Key.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oFoundPrivateKeyEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.26.1.2

SNMP Trap Number : 2

## Variables

---

The FoundPrivateKey message contains the following variables:

Table 1. FoundPrivateKey Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## FoundPublicKey

---

Crypto Service was successfully able to read the public key from the java key store.

Level : *Info*

Log Message : *Successfully Read Public Key.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oFoundPublicKeyEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.26.1.2

SNMP Trap Number : 1

## Variables

---

The FoundPublicKey message contains the following variables:

Table 1. FoundPublicKey Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## IOException

---

Activity could not read or write to one of the Input / Output files.

Level : *Severe*

Log Message : *InputOutput Exception. {0}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oIOExceptionEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.26.1.2

SNMP Trap Number : 6

## Variables

---

The IOException message contains the following variables:

Table 1. IOException Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## InputEntryCount

---

Activity successfully filtered specified number of entries.

Level : *Info*

Log Message : *Filtered {NumberOfEntries} entries*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oInputEntryCountEv12*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.26.1.2*

SNMP Trap Number : *12*

## Variables

---

The InputEntryCount message contains the following variables:

Table 1. InputEntryCount Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. NumberOfEntries</b>  Number of entries filtered by the activity. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oEv12NumberOfEntries</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.26.1.2.1.12.1</li></ul>

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## IntegrityCheckFailed

---

Message failed integrity check.

Level : *Info*

Log Message : *Integrity check failed.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oIntegrityCheckFailedEv19

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.26.1.2

SNMP Trap Number : 19

## Variables

---

The IntegrityCheckFailed message contains the following variables:

Table 1. IntegrityCheckFailed Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## IntegrityCheckPassed

---

Message passed integrity check.

Level : *Info*

Log Message : *Integrity check passed.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oIntegrityCheckPassedEv18

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.26.1.2

SNMP Trap Number : 18

## Variables

---

The IntegrityCheckPassed message contains the following variables:

Table 1. IntegrityCheckPassed Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## InvalidAlgorithm

---

Activity could not find key because of invalid algorithm.

Level : *Severe*

Log Message : *Invalid Key Store.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oInvalidAlgorithmEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.26.1.2

SNMP Trap Number : 5

## Variables

---

The InvalidAlgorithm message contains the following variables:

Table 1. InvalidAlgorithm Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## InvalidContent

---

The input content cannot be empty.

Level : *Severe*

Log Message : *Invalid Content*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oInvalidContentEv13

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.26.1.2

SNMP Trap Number : 13

## Variables

---

The InvalidContent message contains the following variables:

Table 1. InvalidContent Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## InvalidDateFormat

---

The date format is not valid. Enter date in dd-MM-yyyy format

Level : *Severe*

Log Message : *Invalid Date Format*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oInvalidDateFormatEv16

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.26.1.2

SNMP Trap Number : 16

## Variables

---

The InvalidDateFormat message contains the following variables:

Table 1. InvalidDateFormat Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## InvalidFormat

---

Activity could not complete due invalid crypto format.

Level : *Severe*

Log Message : *IO Exception*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oInvalidFormatEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.26.1.2

SNMP Trap Number : 7

## Variables

---

The InvalidFormat message contains the following variables:

Table 1. InvalidFormat Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## InvalidKeyOrPwd

---

Activity could not find a specified key handle in the java keystore with provided name and password.

Level : *Severe*

Log Message : *Invalid Key Handle or Password . {KeyHandleName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oInvalidKeyOrPwdEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.26.1.2

SNMP Trap Number : 3

## Variables

---

The InvalidKeyOrPwd message contains the following variables:

Table 1. InvalidKeyOrPwd Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. KeyHandleName</b>  KeyHandle Name used to Encrypt / Decrypt the content.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oEv3KeyHandleName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.26.1.2.1.3.1</li></ul>

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## InvalidKeyStore

---

Activity could not find a specified entry in key store.

Level : *Severe*

Log Message : *Invalid Key Store. {KeyHandleName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oInvalidKeyStoreEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.26.1.2

SNMP Trap Number : 4

## Variables

The InvalidKeyStore message contains the following variables:

Table 1. InvalidKeyStore Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. KeyHandleName</b>  KeyHandle Name used to Encrypt / Decrypt the content. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oEv4KeyHandleName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.26.1.2.1.4.1</li></ul>

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## InvalidKeyhandle

---

The input keyhandle cannot be empty.

Level : Severe

Log Message : Invalid Keyhandle. {KeyHandleName}

System : Orchestration

SNMP Name : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oInvalidKeyhandleEv14

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.26.1.2

SNMP Trap Number : 14

## Variables

---

The InvalidKeyhandle message contains the following variables:

Table 1. InvalidKeyhandle Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. KeyHandleName</b>  KeyHandle Name used to Encrypt / Decrypt the content.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>

- **SNMP Object Name** : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oEv14KeyHandleName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.26.1.2.1.14.1

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## InvalidPassword

The input password cannot be empty.

Level : *Severe*

Log Message : *Invalid Password*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oInvalidPasswordEv15

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.26.1.2

SNMP Trap Number : 15

## Variables

The InvalidPassword message contains the following variables:

Table 1. InvalidPassword Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## NoIntegrityCheck

No Message integrity check.

Level : *Info*

Log Message : *No Message integrity check.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oNoIntegrityCheckEv20

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.26.1.2

SNMP Trap Number : 20

## Variables

The NoIntegrityCheck message contains the following variables:

Table 1. NoIntegrityCheck Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## PGPException

PGP Exception.

Level : *Severe*

Log Message : *PGP Exception*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oPGPExceptionEv17

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.26.1.2

SNMP Trap Number : 17

## Variables

The PGPException message contains the following variables:

Table 1. PGPException Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## Data Module

The Data Module provides activities for serializing and parsing textual and binary data. This section contains details for the messages delivered from the Data Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the Data Module.

MIB Name : *CASTIRON-COMP-DATA-MIB*

MIB OID : .1.3.6.1.4.1.13336.2.2.3.16

The following table provides an alphabetical list of all notifications that can be issued by the Data Module.

Table 1. Notifications issued by the Data Module

Notification	Level	System	Description
<a href="#">BadEncoding</a>	Severe	Orchestration	Encoding parameter specified is not supported by the activity.
<a href="#">MissingEncParse</a>	Severe	Orchestration	Encoding parameter was not set and there was no value specified in configuration.
<a href="#">MissingEncSerialize</a>	Severe	Orchestration	Encoding parameter was not set and there was no value specified in configuration.
<a href="#">ParsingError</a>	Severe	Orchestration	Error occurred while parsing the error.
<a href="#">SerializeError</a>	Severe	Orchestration	Error occurred while serializing.
<a href="#">SerializeIOError</a>	Severe	Orchestration	IO Error occurred while serializing.

- [Data Operation Notifications](#)

Provides a comprehensive list of operation notifications sent from the Data Module.

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## Data Operation Notifications

Provides a comprehensive list of operation notifications sent from the Data Module.

- [BadEncoding](#)  
Encoding parameter specified is not supported by the activity.
- [MissingEncParse](#)  
Encoding parameter was not set and there was no value specified in configuration.
- [MissingEncSerialize](#)  
Encoding parameter was not set and there was no value specified in configuration.
- [ParsingError](#)  
Error occurred while parsing the error.
- [SerializeError](#)  
Error occurred while serializing.
- [SerializeIOError](#)  
IO Error occurred while serializing.

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## BadEncoding

Encoding parameter specified is not supported by the activity.

Level : *Severe*

Log Message : *Encoding parameter not supported: {Encoding}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-DATA-MIB::ciC16oBadEncodingEv3*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.16.1.2*

SNMP Trap Number : *3*

## Variables

The BadEncoding message contains the following variables:

Table 1. BadEncoding Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Encoding

The encoding parameter not supported by the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DATA-MIB::ciC16oEv3Encoding
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.16.1.2.1.3.1

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## MissingEncParse

---

Encoding parameter was not set and there was no value specified in configuration.

Level : Severe

Log Message : *Encoding parameter not set and no value specified in configuration*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATA-MIB::ciC16oMissingEncParseEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.16.1.2

SNMP Trap Number : 2

## Variables

---

The MissingEncParse message contains the following variables:

Table 1. MissingEncParse Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## MissingEncSerialize

---

Encoding parameter was not set and there was no value specified in configuration.

Level : Severe

Log Message : *Encoding parameter not set and no value specified in configuration*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATA-MIB::ciC16oMissingEncSerializeEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.16.1.2

SNMP Trap Number : 6

---

## Variables

The MissingEncSerialize message contains the following variables:

Table 1. MissingEncSerialize Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## ParsingError

---

Error occurred while parsing the error.

Level : *Severe*

Log Message : *Parsing Error: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATA-MIB::ciC16oParsingErrorEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.16.1.2

SNMP Trap Number : 1

## Variables

---

The ParsingError message contains the following variables:

Table 1. ParsingError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## SerializeError

---

Error occurred while serializing.

Level : *Severe*

Log Message : *Serialization Error: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATA-MIB::ciC16oSerializeErrorEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.16.1.2

SNMP Trap Number : 4

## Variables

---

The SerializeError message contains the following variables:

Table 1. SerializeError Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [Data Operation Notifications](#)

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## SerializeIOError

---

IO Error occurred while serializing.

Level : Severe

Log Message : *Serialization Error: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATA-MIB::ciC16oSerializeIOErrorEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.16.1.2

## Variables

---

The SerializeIOError message contains the following variables:

Table 1. SerializeIOError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. Message</b>
Textual description of the error.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li> </ul>

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## Data Quality Module

---

The Data Quality Module provides activities to validate and cleanse data records. This section contains details for the messages delivered from the Data Quality Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the Data Quality Module.

MIB Name : CASTIRON-COMP-DQ-MIB

MIB OID : .1.3.6.1.4.1.13336.2.2.3.14

The following table provides an alphabetical list of all notifications that can be issued by the Data Quality Module.

Table 1. Notifications issued by the Data Quality Module

Notification	Level	System	Description
BadPreloadQuery	Warning	Orchestration	Activity could not execute query to preload lookup cache.
DQLookupFuzzyOnCloud	Severe	Orchestration	Data Quality Lookup activity with Fuzzy option is not supported in cloud
FilterError	Severe	Orchestration	Activity failed to filter data.
InputEntryCount	Info	Orchestration	Activity successfully filtered specified number of entries.
LeftMergeInputEntry	Info	Orchestration	Activity successfully merged specified number of entries.
LookUpEntryCount	Info	Orchestration	Activity successfully looked up specified number of entries.
LookUpError	Severe	Orchestration	Activity failed to perform lookup for data.
MergeError	Severe	Orchestration	Activity failed to merge data.
NoAssetsError	Severe	Orchestration	Failed to perform lookup for data, database assets may not have been created.
NoPreloadedCache	Info	Orchestration	Lookup cache was not preloaded by the activity.
OutputEntryCount	Info	Orchestration	Activity successfully outputted specified number of entries.
PreloadedCache	Info	Orchestration	Lookup cache was preloaded by activity with specified number of entries.
RightMergeInputEntry	Info	Orchestration	Activity successfully merged specified number of entries.
SortError	Severe	Orchestration	Activity failed to sort data.
SortInputEntryCount	Info	Orchestration	Activity successfully sorted specified number of entries.

- [Data Quality Operation Notifications](#)

Provides a comprehensive list of operation notifications sent from the Data Quality Module.

- [Data Quality Internal Notifications](#)

Provides a comprehensive list of internal notifications sent from the Data Quality Module.

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## Data Quality Operation Notifications

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Provides a comprehensive list of operation notifications sent from the Data Quality Module.

- [BadPreloadQuery](#)

Activity could not execute query to preload lookup cache.

- [FilterError](#)

Activity failed to filter data.

- [InputEntryCount](#)

Activity successfully filtered specified number of entries.

- [LeftMergeInputEntry](#)  
Activity successfully merged specified number of entries.
- [LookUpEntryCount](#)  
Activity successfully looked up specified number of entries.
- [LookUpError](#)  
Activity failed to perform lookup for data.
- [MergeError](#)  
Activity failed to merge data.
- [NoAssetsError](#)  
Failed to perform lookup for data, database assets may not have been created.
- [NoPreloadedCache](#)  
Lookup cache was not preloaded by the activity.
- [OutputEntryCount](#)  
Activity successfully outputted specified number of entries.
- [PreloadedCache](#)  
Lookup cache was preloaded by activity with specified number of entries.
- [RightMergeInputEntry](#)  
Activity successfully merged specified number of entries.
- [SortError](#)  
Activity failed to sort data.
- [SortInputEntryCount](#)  
Activity successfully sorted specified number of entries.

**Parent topic:** [Data Quality Module](#)

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## BadPreloadQuery

---

Activity could not execute query to preload lookup cache.

Level : *Warning*

Log Message : *Could not execute query to preload lookup cache*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DQ-MIB::ciC14oBadPreloadQueryEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.14.1.2

SNMP Trap Number : 6

## Variables

---

The BadPreloadQuery message contains the following variables:

Table 1. BadPreloadQuery Message Variables

**1. SerialNumber**

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## FilterError

---

Activity failed to filter data.

Level : *Severe*

Log Message : *Failed to filter data, error was: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DQ-MIB::ciC14oFilterErrorEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.14.1.2

SNMP Trap Number : 1

## Variables

---

The FilterError message contains the following variables:

Table 1. FilterError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## InputEntryCount

---

Activity successfully filtered specified number of entries.

Level : *Info*

Log Message : *Filtered {NumberOfEntries} entries*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DQ-MIB::ciC14oInputEntryCountEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.14.1.2

SNMP Trap Number : 2

## Variables

---

The InputEntryCount message contains the following variables:

Table 1. InputEntryCount Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. NumberOfEntries</b>
Number of entries filtered by the activity.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DQ-MIB::ciC14oEv2NumberOfEntries</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.14.1.2.1.2.1</li> </ul>

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## LeftMergeInputEntry

---

Activity successfully merged specified number of entries.

Level : *Info*

Log Message : *Merged {NumberOfEntries} left entries*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DQ-MIB::ciC14oLeftMergeInputEntryEv11

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.14.1.2

SNMP Trap Number : 11

## Variables

---

The LeftMergeInputEntry message contains the following variables:

Table 1. LeftMergeInputEntry Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. NumberOfEntries</b>  Number of entries merged by the activity. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DQ-MIB::ciC14oEv11NumberOfEntries</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.14.1.2.1.11.1</li></ul>

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## LookUpEntryCount

---

Activity successfully looked up specified number of entries.

Level : *Info*

Log Message : *Looked up {NumberOfEntries} entries*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-DQ-MIB::ciC14oLookUpEntryCountEv7*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.14.1.2*

SNMP Trap Number : *7*

## Variables

The LookUpEntryCount message contains the following variables:

Table 1. LookUpEntryCount Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. NumberOfEntries</b>  Number of entries looked up by the activity. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DQ-MIB::ciC14oEv7NumberOfEntries</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.14.1.2.1.7.1</li></ul>

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## LookUpError

---

Activity failed to perform lookup for data.

Level : *Severe*

Log Message : *Failed to perform lookup for data, error was: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DQ-MIB::ciC14oLookUpErrorEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.14.1.2

SNMP Trap Number : 4

## Variables

---

The LookUpError message contains the following variables:

Table 1. LookUpError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li></ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## MergeError

---

Activity failed to merge data.

Level : *Severe*

Log Message : *Failed to merge data, error was: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DQ-MIB::ciC14oMergeErrorEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.14.1.2

SNMP Trap Number : 10

## Variables

---

The MergeError message contains the following variables:

Table 1. MergeError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> </ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## NoAssetsError

Failed to perform lookup for data, database assets may not have been created.

Level : Severe

Log Message : *Failed to perform lookup for data, database assets may not have been created*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-DQ-MIB::ciC14oNoAssetsErrorEv5*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.14.1.2*

SNMP Trap Number : *5*

## Variables

The NoAssetsError message contains the following variables:

Table 1. NoAssetsError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## NoPreloadedCache

Lookup cache was not preloaded by the activity.

Level : *Info*

Log Message : *Lookup cache not preloaded*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DQ-MIB::ciC14oNoPreloadedCacheEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.14.1.2

SNMP Trap Number : 8

## Variables

The NoPreloadedCache message contains the following variables:

Table 1. NoPreloadedCache Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## OutputEntryCount

Activity successfully outputted specified number of entries.

Level : *Info*

Log Message : *Emitted {NumberOfEntries} entries to "{Target}"*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DQ-MIB::ciC14oOutputEntryCountEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.14.1.2

SNMP Trap Number : 3

## Variables

The OutputEntryCount message contains the following variables:

Table 1. OutputEntryCount Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. NumberOfEntries

Number of entries outputted by the activity.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-DQ-MIB::ciC14oEv3NumberOfEntries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.14.1.2.1.3.1

#### 6. Target

Output variable where entries were placed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DQ-MIB::ciC14oEv3Target
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.14.1.2.1.3.2

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## PreloadedCache

Lookup cache was preloaded by activity with specified number of entries.

Level : *Info*

Log Message : *Lookup cache preloaded with {NumberOfEntries} entries*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DQ-MIB::ciC14oPreloadedCacheEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.14.1.2

SNMP Trap Number : 9

## Variables

The PreloadedCache message contains the following variables:

Table 1. PreloadedCache Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. NumberOfEntries

Number of entries preloaded up by the activity.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-DQ-MIB::ciC14oEv9NumberOfEntries
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.14.1.2.1.9.1

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## RightMergeInputEntry

Activity successfully merged specified number of entries.

Level : *Info*

Log Message : *Merged {NumberOfEntries} right entries*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DQ-MIB::ciC14oRightMergeInputEntryEv12

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.14.1.2

SNMP Trap Number : 12

## Variables

---

The RightMergeInputEntry message contains the following variables:

Table 1. RightMergeInputEntry Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. NumberOfEntries</b>  Number of entries merged by the activity. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DQ-MIB::ciC14oEv12NumberOfEntries</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.14.1.2.1.12.1</li></ul>

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## SortError

---

Activity failed to sort data.

Level : Severe

Log Message : Failed to sort data, error was: {Message}

System : Orchestration

SNMP Name : CASTIRON-COMP-DQ-MIB::ciC14oSortErrorEv13

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.14.1.2

SNMP Trap Number : 13

## Variables

The SortError message contains the following variables:

Table 1. SortError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## SortInputEntryCount

Activity successfully sorted specified number of entries.

Level : *Info*

Log Message : *Sorted {NumberOfEntries} entries*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-DQ-MIB::ciC14oSortInputEntryCountEv14*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.14.1.2*

SNMP Trap Number : *14*

## Variables

The SortInputEntryCount message contains the following variables:

Table 1. SortInputEntryCount Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. NumberOfEntries</b>  Number of entries sorted by the activity. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DQ-MIB::ciC14oEv14NumberOfEntries</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.14.1.2.1.14.1</li></ul>

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# Data Quality Internal Notifications

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Provides a comprehensive list of internal notifications sent from the Data Quality Module.

- [DQLookupFuzzyOnCloud](#)  
Data Quality Lookup activity with Fuzzy option is not supported in cloud

**Parent topic:** [Data Quality Module](#)

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# DQLookupFuzzyOnCloud

---

Data Quality Lookup activity with Fuzzy option is not supported in cloud

Level : *Severe*

Log Message : *Data Quality Lookup activity with Fuzzy option is not supported in cloud*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DQ-MIB::ciC14iDQLookupFuzzyOnCloudEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.14.1.3

SNMP Trap Number : 1

## Variables

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The DQLookupFuzzyOnCloud message contains the following variables:

Table 1. DQLookupFuzzyOnCloud Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li></ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## Database Module

The Database Module provides activities for accessing various SQL databases. This section contains details for the messages delivered from the Database Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the Database Module.

MIB Name : *CASTIRON-COMP-DATABASE-MIB*

MIB OID : .1.3.6.1.4.1.13336.2.2.3.2

The following table provides an alphabetical list of all notifications that can be issued by the Database Module.

Table 1. Notifications issued by the Database Module

Notification	Level	System	Description
ActivateError	Severe	Orchestration	A problem occurred while activating the activity.
ConnectionError	Warning	Orchestration	An error occurred while connecting to the database endpoint.
ConnectionRetry	Warning	Orchestration	An error occurred while attempting to connect to the database.
DataSourceHashCode	Info	Orchestration	Information regarding the hash code used to register the datasource.
DataSourceRegistered	Info	Orchestration	Information about the datasource name registered with the system.
DateTimeParseError	Severe	Orchestration	Unable to parse the date and time
DeleteRowsError	Severe	Orchestration	An exception occurred while deleting the row from the control table.
DeleteRowsFailure	Severe	Orchestration	Unable to delete rows from the buffer table.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
DeleteSQL	Info	Orchestration	The delete query issued to the buffer table.
DeleteSQLWithId	Info	Orchestration	The delete query, with id, issued to the buffer table.
ErrorDeletePost	Severe	Orchestration	An exception occurred while deleting the row from the control table due to a connection error.
ErrorSingleTableJob	Severe	Orchestration	An exception occurred while processing a SingleTableNotification job
InboundOperationError	Severe	Orchestration	An error occurred while executing the inbound job.
InsertTableStatement	Info	Orchestration	An insert statement was issued to the control table.
JDBCConnectionClose	Warning	Orchestration	An error occurred while closing the connection in the exception path.
MaxRowExceeded	Info	Orchestration	The maximum number of rows for one poll on the table was reached. If this happens frequently, it is advisable to alter the threshold
MethodNotFound	Info	Orchestration	Unable to invoke the method specified in the connection properties.
OperationNameAbsent	Severe	Orchestration	The buffer table contains the operation but there is no activity in the orchestration for that operation. This is not a valid configuration.
OutboundActivateError	Severe	Orchestration	A problem occurred while activating the database outbound activity.
ParamQueryActivate	Severe	Orchestration	An exception occurred while activating the parameterized query activity.
ParamQueryError	Severe	Orchestration	An error occurred while processing the message for the parameterized query activity.
ParameterizedQuery	Info	Orchestration	The query for the parameterized query activity.
PollTblActivateError	Severe	Orchestration	A problem occurred while activating the database poll table activity.
QueryString	Info	Orchestration	The query which was issued for buffer table.
RedeliverSkip	Warning	Orchestration	This row is already delivered to the database and will be skipped now.
SelectStatement	Info	Orchestration	A select statement was issued to the control table to check for duplicate rows.
SetQueryTimeout	Warning	Orchestration	Unable to set the query time out for the database.
StoredProcActivate	Severe	Orchestration	An exception occurred while activating the stored procedure activity.
StoredProcException	Severe	Orchestration	A data error occurred while processing an outbound job in the stored procedure activity.
StoredProcQuery	Info	Orchestration	The stored procedure query issued to the database.
UnexpectedEmptyRows	Warning	Orchestration	An unexpected result returned from the buffer table. Expecting rows to present in result, instead the result is empty.
UpdateQuery	Info	Orchestration	The update query issued to the buffer table for marking rows.

- [Database Connection Notifications](#)

Provides a comprehensive list of connection notifications sent from the Database Module.

- [Database Operation Notifications](#)

Provides a comprehensive list of operation notifications sent from the Database Module.

- [Database Internal Notifications](#)

Provides a comprehensive list of internal notifications sent from the Database Module.

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## Database Connection Notifications

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Provides a comprehensive list of connection notifications sent from the Database Module.

- [ConnectionError](#)  
An error occurred while connecting to the database endpoint.
- [ConnectionRetry](#)  
An error occurred while attempting to connect to the database.
- [JDBCConnectionClose](#)  
An error occurred while closing the connection in the exception path.
- [SetQueryTimeout](#)  
Unable to set the query time out for the database.

**Parent topic:** [Database Module](#)

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## ConnectionError

---

An error occurred while connecting to the database endpoint.

Level : *Warning*

Log Message : *An error occurred while connecting to the database. The exception is {Message}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-DATABASE-MIB::ciC2cConnectionErrorEv1*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.2.1.1*

SNMP Trap Number : *1*

## Variables

---

The ConnectionError message contains the following variables:

Table 1. ConnectionError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
• <b>Type</b> : String

- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## ConnectionRetry

An error occurred while attempting to connect to the database.

Level : *Warning*

Log Message : *An error occurred while connecting to the database. The exception is {Message} The job is retrying: {RetryAttemptNumber} out of {TotalRetryAttempts} attempts to connect to the database . Another attempt will be made after {IntervalForRetries} secs.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2cConnectionRetryEv2

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.2.1.1

SNMP Trap Number : 2

## Variables

The ConnectionRetry message contains the following variables:

Table 1. ConnectionRetry Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>
<b>6. RetryAttemptNumber</b>  The current number of retries. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DATABASE-MIB::ciC2cEv2RetryAttemptNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.2.1.1.1.2.2</li></ul>
<b>7. TotalRetryAttempts</b>  The specified number of times to attempt connecting to the database before stopping. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DATABASE-MIB::ciC2cEv2TotalRetryAttempts</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.2.1.1.1.2.3</li></ul>
<b>8. IntervalForRetries</b>  The specified amount of time to wait between attempts to connect to the database.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2cEv2IntervalForRetries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.2.1.1.2.4

**Parent topic:** Database Connection Notifications

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## JDBCConnectionClose

---

An error occurred while closing the connection in the exception path.

Level : *Warning*

Log Message : *An error occurred while closing the connection in the exception path. The exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2cJDBCCloseEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.1

SNMP Trap Number : 4

## Variables

---

The JDBCConnectionClose message contains the following variables:

Table 1. JDBCConnectionClose Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## SetQueryTimeout

Unable to set the query time out for the database.

Level : *Warning*

Log Message : *Unable to set the query time out for database {DBType}. The exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2cSetQueryTimeoutEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.1

SNMP Trap Number : 3

## Variables

The SetQueryTimeout message contains the following variables:

Table 1. SetQueryTimeout Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. DBType

The type of database

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2cEv3DBType
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.2.1.1.1.3.1

#### 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## Database Operation Notifications

Provides a comprehensive list of operation notifications sent from the Database Module.

- [ActivateError](#)  
A problem occurred while activating the activity.
- [DataSourceHashCode](#)  
Information regarding the hash code used to register the datasource.
- [DataSourceRegistered](#)  
Information about the datasource name registered with the system.
- [DateTimeParseError](#)  
Unable to parse the date and time
- [DeleteRowsError](#)  
An exception occurred while deleting the row from the control table.
- [DeleteRowsFailure](#)  
Unable to delete rows from the buffer table.
- [DeleteSQL](#)  
The delete query issued to the buffer table.
- [DeleteSQLWithId](#)  
The delete query, with id, issued to the buffer table.
- [ErrorDeletePost](#)  
An exception occurred while deleting the row from the control table due to a connection error.

- [ErrorSingleTableJob](#)  
An exception occurred while processing a SingleTableNotification job
- [InboundOperationError](#)  
An error occurred while executing the inbound job.
- [InsertTableStatement](#)  
An insert statement was issued to the control table.
- [MaxRowExceeded](#)  
The maximum number of rows for one poll on the table was reached. If this happens frequently, it is advisable to alter the threshold
- [MethodNotFound](#)  
Unable to invoke the method specified in the connection properties.
- [OperationNameAbsent](#)  
The buffer table contains the operation but there is no activity in the orchestration for that operation. This is not a valid configuration.
- [OutboundActivateError](#)  
A problem occurred while activating the database outbound activity.
- [ParamQueryActivate](#)  
An exception occurred while activating the parameterized query activity.
- [ParamQueryError](#)  
An error occurred while processing the message for the parameterized query activity.
- [ParameterizedQuery](#)  
The query for the parameterized query activity.
- [PollTblActivateError](#)  
A problem occurred while activating the database poll table activity.
- [QueryString](#)  
The query which was issued for buffer table.
- [RedeliverSkip](#)  
This row is already delivered to the database and will be skipped now.
- [SelectStatement](#)  
A select statement was issued to the control table to check for duplicate rows.
- [StoredProcException](#)  
A data error occurred while processing an outbound job in the stored procedure activity.
- [StoredProcQuery](#)  
The stored procedure query issued to the database.
- [UpdateQuery](#)  
The update query issued to the buffer table for marking rows.

**Parent topic:** [Database Module](#)

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## ActivateError

---

A problem occurred while activating the activity.

Level : *Severe*

Log Message : *Exception while activating the database inbound activity.Exception is : {Message}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-DATABASE-MIB::ciC2oActivateErrorEv2*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.2.1.2*

## Variables

---

The ActivateError message contains the following variables:

Table 1. ActivateError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. Message</b>
Textual description of the error.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li> </ul>

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## DataSourceHashCode

---

Information regarding the hash code used to register the datasource.

Level : Info

Log Message : The datasource with the name {DataSourceName} is registered with hash code: {HashCodeName}

System : Orchestration

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oDataSourceHashCodeEv19

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 19

## Variables

---

The DataSourceHashCode message contains the following variables:

Table 1. DataSourceHashCode Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. DataSourceName</b>  The name of the datasource <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DATABASE-MIB::ciC2oEv19DataSourceName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.2.1.2.1.19.1</li></ul>
<b>6. HashCodeName</b>  The name of the hash code used to register the datasource. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DATABASE-MIB::ciC2oEv19HashCodeName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.2.1.2.1.19.2</li></ul>

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## DataSourceRegistered

---

Information about the datasource name registered with the system.

Level : *Info*

Log Message : *The following datasource name is registered with the system.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-DATABASE-MIB::ciC2oDataSourceRegisteredEv20*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.2.1.2*

SNMP Trap Number : *20*

## Variables

---

The DataSourceRegistered message contains the following variables:

Table 1. DataSourceRegistered Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## DateModelError

Unable to parse the date and time

Level : *Severe*

Log Message : *Unable to parse the date and time: {DateTimeValue} {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oDateModelErrorEv21

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 21

## Variables

The DateModelError message contains the following variables:

Table 1. DateModelError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. DateTimeValue

The value of date and time when the parsing error occurred.

- **Type :** String
- **SNMP Object Name :** CASTIRON-COMP-DATABASE-MIB::ciC2oEv21DateTimeValue
- **SNMP OID :** .1.3.6.1.4.1.13336.2.2.3.2.1.2.1.21.1

## 6. Message

Textual description of the error.

- **Type :** String
- **SNMP Object Name :** CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID :** .1.3.6.1.4.1.13336.2.2.1.2.2

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## DeleteRowsError

---

An exception occurred while deleting the row from the control table.

Level : *Severe*

Log Message : *An exception occurred while deleting the row from the control table. The exception is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oDeleteRowsErrorEv18

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 18

## Variables

---

The DeleteRowsError message contains the following variables:

Table 1. DeleteRowsError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type :** String
- **SNMP Object Name :** CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID :** 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type :** Integer
- **SNMP Object Name :** CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID :** 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## DeleteRowsFailure

---

Unable to delete rows from the buffer table.

Level : *Severe*

Log Message : *Unable to delete rows from buffer table {TableName}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oDeleteRowsFailureEv9

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 9

## Variables

---

The DeleteRowsFailure message contains the following variables:

Table 1. DeleteRowsFailure Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. TableName

Name of the buffer table.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2oEv9TableName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.2.1.2.1.9.1

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## DeleteSQL

---

The delete query issued to the buffer table.

Level : *Info*

Log Message : *The delete query issued to the buffer table is {Query}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oDeleteSQLEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 5

## Variables

---

The DeleteSQL message contains the following variables:

Table 1. DeleteSQL Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. Query</b>
The query string.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DATABASE-MIB::ciC2oEv5Query</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.2.1.2.1.5.1</li> </ul>

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## DeleteSQLWithId

---

The delete query, with id, issued to the buffer table.

Level : *Info*

Log Message : *The delete query, with id, issued to the buffer table is {Query}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oDeleteSQLWithIdEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 4

## Variables

---

The DeleteSQLWithId message contains the following variables:

Table 1. DeleteSQLWithId Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Query</b>  The query string. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DATABASE-MIB::ciC2oEv4Query</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.2.1.2.1.4.1</li></ul>

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## ErrorDeletePost

---

An exception occurred while deleting the row from the control table due to a connection error.

Level : *Severe*

Log Message : *An exception occurred while deleting the row from the control table. The exception is {Message}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-DATABASE-MIB::ciC2oErrorDeletePostEv24*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.2.1.2*

SNMP Trap Number : *24*

## Variables

The ErrorDeletePost message contains the following variables:

Table 1. ErrorDeletePost Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## ErrorSingleTableJob

An exception occurred while processing a SingleTableNotification job

Level : *Severe*

Log Message : *An exception occurred while processing a SingleTableNotification job. Data error at row number {RowNumber} of table {TableName}. The Error is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oErrorSingleTableJobEv23

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 23

## Variables

The ErrorSingleTableJob message contains the following variables:

Table 1. ErrorSingleTableJob Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. RowNumber</b>  The table row number where the error occurred.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li></ul>

- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2oEv23RowNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.2.1.2.1.23.1

## 6. TableName

The table name where the error occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2oEv23TableName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.2.1.2.1.23.2

## 7. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [Database Operation Notifications](#)

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## InboundOperationError

An error occurred while executing the inbound job.

Level : *Severe*

Log Message : *An exception occurred while processing the inbound job: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oInboundOperationErrorEv22

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 22

## Variables

The InboundOperationError message contains the following variables:

Table 1. InboundOperationError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## InsertTableStatement

An insert statement was issued to the control table.

Level : *Info*

Log Message : *An insert statement was issued to the control table. {TableName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oInsertTableStatementEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 10

## Variables

The InsertTableStatement message contains the following variables:

Table 1. InsertTableStatement Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. TableName

The control table to which the insert statement was issued.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2oEv10TableName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.2.1.2.1.10.1

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## MaxRowExceeded

The maximum number of rows for one poll on the table was reached. If this happens frequently, it is advisable to alter the threshold

Level : *Info*

Log Message : *The maximum number of rows for one poll on table {TableName} was reached. If this is a frequent occurrence, then alter the threshold!*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oMaxRowExceededEv8

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 8

## Variables

---

The MaxRowExceeded message contains the following variables:

Table 1. MaxRowExceeded Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. TableName</b>  The name of the table for which the threshold was reached.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DATABASE-MIB::ciC2oEv8TableName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.2.1.2.1.8.1</li></ul>

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## MethodNotFound

---

Unable to invoke the method specified in the connection properties.

Level : *Info*

Log Message : Unable to invoke method {MethodName} on the data source object. This might cause unexpected behavior. Please check the connection properties

System : Orchestration

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oMethodNotFoundEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 7

## Variables

---

The MethodNotFound message contains the following variables:

Table 1. MethodNotFound Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. MethodName</b>  Name of the method. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DATABASE-MIB::ciC2oEv7MethodName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.2.1.2.1.7.1</li></ul>

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## OperationNameAbsent

The buffer table contains the operation but there is no activity in the orchestration for that operation. This is not a valid configuration.

Level : Severe

Log Message : *The buffer table contains the {OperationName} operation but there is no activity in the orchestration for that operation. This is not a valid configuration.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oOperationNameAbsentEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 1

## Variables

The OperationNameAbsent message contains the following variables:

Table 1. OperationNameAbsent Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. OperationName</b>  The name of the operation which was not found <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DATABASE-MIB::ciC2oEv1OperationName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.2.1.2.1.1.1</li></ul>

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## OutboundActivateError

A problem occurred while activating the database outbound activity.

Level : *Severe*

Log Message : *Exception while activating the database outbound activity.Exception is : {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oOutboundActivateErrorEv25

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 25

## Variables

The OutboundActivateError message contains the following variables:

Table 1. OutboundActivateError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. Message

Textual description of the error.

- **Type :** String
- **SNMP Object Name :** CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID :** .1.3.6.1.4.1.13336.2.2.1.2.2

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## ParamQueryActivate

---

An exception occurred while activating the parameterized query activity.

Level : *Severe*

Log Message : *An exception occurred while activating the parameterized query activity. The exception is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oParamQueryActivateEv13

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 13

## Variables

---

The ParamQueryActivate message contains the following variables:

Table 1. ParamQueryActivate Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type :** String
- **SNMP Object Name :** CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID :** 1.3.6.1.4.1.13336.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type :** Integer
- **SNMP Object Name :** CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID :** 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type :** String
- **SNMP Object Name :** CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID :** 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## ParamQueryError

---

An error occurred while processing the message for the parameterized query activity.

Level : Severe

Log Message : *An error occurred while processing the message for the parameterized query activity at row number {RowNumber}. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oParamQueryErrorEv15

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 15

## Variables

---

The ParamQueryError message contains the following variables:

Table 1. ParamQueryError Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity

- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. RowNumber

The row number at which the error occurred.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2oEv15RowNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.2.1.2.1.15.1

### 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## ParameterizedQuery

The query for the parameterized query activity.

Level : *Info*

Log Message : *The query for the parameterized query activity is: {QueryString}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oParameterizedQueryEv14

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 14

## Variables

The ParameterizedQuery message contains the following variables:

Table 1. ParameterizedQuery Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. QueryString</b>  The exact query string.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DATABASE-MIB::ciC2oEv14QueryString</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.2.1.2.1.14.1</li></ul>

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/database/database\\_operation\\_parameterizedquery\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/database/database_operation_parameterizedquery_message.html)

## PollTblActivateError

---

A problem occurred while activating the database poll table activity.

Level : Severe

Log Message : *Exception while activating the database poll table activity.Exception is : {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oPollTblActivateErrorEv26

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 26

## Variables

---

The PollTblActivateError message contains the following variables:

Table 1. PollTblActivateError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## QueryString

---

The query which was issued for buffer table.

Level : *Info*

Log Message : *The select query issued for the buffer table is {Query}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-DATABASE-MIB::ciC2oQueryStringEv3*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.2.1.2*

SNMP Trap Number : 3

## Variables

The QueryString message contains the following variables:

Table 1. QueryString Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Query</b>  The query string. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DATABASE-MIB::ciC2oEv3Query</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.2.1.2.1.3.1</li></ul>

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## RedeliverSkip

---

This row is already delivered to the database and will be skipped now.

Level : *Warning*

Log Message : *The row is already delivered to the database. Skipping it.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-DATABASE-MIB::ciC2oRedeliverSkipEv12*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.2.1.2*

SNMP Trap Number : *12*

## Variables

---

The RedeliverSkip message contains the following variables:

Table 1. RedeliverSkip Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## SelectStatement

---

A select statement was issued to the control table to check for duplicate rows.

Level : *Info*

Log Message : *A select statement was issued to control table {TableName} to check for duplicate rows.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oSelectStatementEv11

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 11

## Variables

---

The SelectStatement message contains the following variables:

Table 1. SelectStatement Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. TableName</b>  The control table to which the select statement was issued.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2oEv11TableName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.2.1.2.1.11.1

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## StoredProcException

A data error occurred while processing an outbound job in the stored procedure activity.

Level : *Severe*

Log Message : *An exception occurred while processing an outbound job in the stored procedure activity. Data error at row number: {RowNumber}. The error is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oStoredProcExceptionEv16

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 16

## Variables

The StoredProcException message contains the following variables:

Table 1. StoredProcException Message Variables

1. SerialNumber
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
2. Severity
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
3. JobID
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. RowNumber

The row number at which the error occurred.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2oEv16RowNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.2.1.2.1.16.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## StoredProcQuery

---

The stored procedure query issued to the database.

Level : *Info*

Log Message : *The stored procedure query issued to the database is {QueryString}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oStoredProcQueryEv17

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 17

## Variables

---

The StoredProcQuery message contains the following variables:

Table 1. StoredProcQuery Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. QueryString

The exact query string issued to the database.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2oEv17QueryString
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.2.1.2.1.17.1

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## UpdateQuery

---

The update query issued to the buffer table for marking rows.

Level : *Info*

Log Message : *The update query issued to the buffer table for marking rows is {Query}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2oUpdateQueryEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.2

SNMP Trap Number : 6

## Variables

---

The UpdateQuery message contains the following variables:

Table 1. UpdateQuery Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Query

The query string.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2oEv6Query
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.2.1.2.1.6.1

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# Database Internal Notifications

---

Provides a comprehensive list of internal notifications sent from the Database Module.

- [StoredProcActivate](#)  
An exception occurred while activating the stored procedure activity.
- [UnexpectedEmptyRows](#)  
An unexpected result returned from the buffer table. Expecting rows to present in result, instead the result is empty.

**Parent topic:** [Database Module](#)

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## StoredProcActivate

---

An exception occurred while activating the stored procedure activity.

Level : *Severe*

Log Message : *An exception occurred while activating the stored procedure activity. The exception is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2iStoredProcActivateEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.3

SNMP Trap Number : 2

## Variables

---

The StoredProcActivate message contains the following variables:

Table 1. StoredProcActivate Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [Database Internal Notifications](#)

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## UnexpectedEmptyRows

An unexpected result returned from the buffer table. Expecting rows to present in result, instead the result is empty.

Level : *Warning*

Log Message : *An unexpected result returned from the buffer table. Expecting rows to be present in the result, instead the result is empty.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DATABASE-MIB::ciC2iUnexpectedEmptyRowsEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.2.1.3

SNMP Trap Number : 1

## Variables

The UnexpectedEmptyRows message contains the following variables:

Table 1. UnexpectedEmptyRows Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

**Parent topic:** [Database Internal Notifications](#)

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## Domino Module

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The Domino Module provides activities for accessing IBM Lotus Domino servers. This section contains details for the messages delivered from the Domino Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the Domino Module.

MIB Name : *CASTIRON-COMP-DOMINO-MIB*

MIB OID : .1.3.6.1.4.1.13336.2.2.3.22

The following table provides an alphabetical list of all notifications that can be issued by the Domino Module.

Table 1. Notifications issued by the Domino Module

Notification	Level	System	Description
ActivateFailureBlank	Severe	Orchestration	The specified activity name is not executed successfully because the activity name was blank.
ActivateSuccess	Info	Orchestration	The specified activity name is activated successfully.
ActivityCreateSuccess	Info	Orchestration	The specified activity name is created successfully and is ready for invocation.
ActivityFailure	Severe	Orchestration	The specified activity name failed to execute.
ActivitySuccessful	Info	Orchestration	The specified activity name is executed successfully. The response parameter is populated successfully.
ConnectError	Severe	Orchestration	An error occurred while processing the connection parameters sent as part of the request in the activity.
InitializationError	Severe	Orchestration	Exception while initializing Lotus Domino connector.
RetryCount	Info	Orchestration	The specified activity re tried the execution so many times specified above.
RunningInfo	Warning	Orchestration	Encountered few warnings or errors while running Domino activity.
RunningMessages	Warning	Orchestration	Received messages while executing the activity.
SchemaInvoke	Info	Orchestration	The specified activity name is generating schemas.
StopSuccess	Info	Orchestration	The specified activity name is successfully stopped.
UnmarshalError	Severe	Orchestration	An error occurred while reading input connection parameters in the activity.

- [Domino Operation Notifications](#)  
Provides a comprehensive list of operation notifications sent from the Domino Module.
- [Domino Internal Notifications](#)  
Provides a comprehensive list of internal notifications sent from the Domino Module.

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## Domino Operation Notifications

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Provides a comprehensive list of operation notifications sent from the Domino Module.

- [ActivateFailureBlank](#)  
The specified activity name is not executed successfully because the activity name was blank.
- [ActivateSuccess](#)  
The specified activity name is activated successfully.
- [ActivityCreateSuccess](#)  
The specified activity name is created successfully and is ready for invocation.
- [ActivityFailure](#)  
The specified activity name failed to execute.
- [ActivitySuccessful](#)  
The specified activity name is executed successfully. The response parameter is populated successfully.
- [RetryCount](#)  
The specified activity re tried the execution so many times specified above.
- [RunningInfo](#)  
Encountered few warnings or errors while running Domino activity.
- [RunningMessages](#)  
Received messages while executing the activity.
- [SchemaInvoke](#)  
The specified activity name is generating schemas.
- [StopSuccess](#)  
The specified activity name is successfully stopped.

**Parent topic:** [Domino Module](#)

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## ActivateFailureBlank

---

The specified activity name is not executed successfully because the activity name was blank.

Level : *Severe*

Log Message : *{ActivityName} activity execution failed due to {Name} property is blank.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DOMINO-MIB::ciC22oActivateFailureBlankEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.22.1.2

SNMP Trap Number : 9

## Variables

The ActivateFailureBlank message contains the following variables:

Table 1. ActivateFailureBlank Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>  The activity name that failed to activate. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DOMINO-MIB::ciC22oEv9ActivityName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.22.1.2.1.9.1</li></ul>
<b>6. Name</b>  The blank activity name caused the activation to fail. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DOMINO-MIB::ciC22oEv9Name</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.22.1.2.1.9.2</li></ul>

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## ActivateSuccess

---

The specified activity name is activated successfully.

Level : *Info*

Log Message : *Activity {ActivityName} activated successfully.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-DOMINO-MIB::ciC22oActivateSuccessEv7*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.22.1.2*

SNMP Trap Number : 7

## Variables

---

The ActivateSuccess message contains the following variables:

Table 1. ActivateSuccess Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>  The activity name that is activated successfully.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>

- **SNMP Object Name** : CASTIRON-COMP-DOMINO-MIB::ciC22oEv7ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.22.1.2.1.7.1

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## ActivityCreateSuccess

The specified activity name is created successfully and is ready for invocation.

Level : *Info*

Log Message : {*ActivityName*} activity created successfully.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DOMINO-MIB::ciC22oActivityCreateSuccessEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.22.1.2

SNMP Trap Number : 4

## Variables

The ActivityCreateSuccess message contains the following variables:

Table 1. ActivityCreateSuccess Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. ActivityName

The activity name that is created.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DOMINO-MIB::ciC22oEv4ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.22.1.2.1.4.1

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## ActivityFailure

The specified activity name failed to execute.

Level : *Severe*

Log Message : *An error occurred while trying to execute activity {ActivityName}. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DOMINO-MIB::ciC22oActivityFailureEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.22.1.2

SNMP Trap Number : 6

## Variables

The ActivityFailure message contains the following variables:

Table 1. ActivityFailure Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. ActivityName

The activity name that failed to execute.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DOMINO-MIB::ciC22oEv6ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.22.1.2.1.6.1

#### 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## ActivitySuccessful

The specified activity name is executed successfully. The response parameter is populated successfully.

Level : *Info*

Log Message : *{ActivityName} activity executed successfully.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DOMINO-MIB::ciC22oActivitySuccessfulEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.22.1.2

SNMP Trap Number : 5

## Variables

The ActivitySuccessful message contains the following variables:

Table 1. ActivitySuccessful Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. ActivityName

The activity name that is executed successfully.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DOMINO-MIB::ciC22oEv5ActivityName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.22.1.2.1.5.1

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## RetryCount

The specified activity re tried the execution so many times specified above.

Level : *Info*

Log Message : *The Domino {ActivityName} activity re trying {Count} times now.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DOMINO-MIB::ciC22oRetryCountEv11

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.22.1.2

SNMP Trap Number : 11

## Variables

The RetryCount message contains the following variables:

Table 1. RetryCount Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>  The activity name. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DOMINO-MIB::ciC22oEv11ActivityName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.22.1.2.1.11.1</li></ul>
<b>6. Count</b>  The retry count which activity tried so far. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DOMINO-MIB::ciC22oEv11Count</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.22.1.2.1.11.2</li></ul>

Parent topic: [Domino Operation Notifications](#)

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# RunningInfo

---

Encountered few warnings or errors while running Domino activity.

Level : *Warning*

Log Message : *Errors/Warning messages while executing activity: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DOMINO-MIB::ciC22oRunningInfoEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.22.1.2

SNMP Trap Number : 3

## Variables

---

The RunningInfo message contains the following variables:

Table 1. RunningInfo Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## RunningMessages

---

Received messages while executing the activity.

Level : *Warning*

Log Message : *{MessageType}* messages while executing activity: *{Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DOMINO-MIB::ciC22oRunningMessagesEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.22.1.2

SNMP Trap Number : 2

## Variables

---

The RunningMessages message contains the following variables:

Table 1. RunningMessages Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. MessageType</b>  Type of the message received.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DOMINO-MIB::ciC22oEv2MessageType
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.22.1.2.1.2.1

## 6. Message

The message received while executing the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DOMINO-MIB::ciC22oEv2Message
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.22.1.2.1.2.2

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## SchemaInvoke

The specified activity name is generating schemas.

Level : *Info*

Log Message : *The required schema for {Name} is missing. The activity {ActivityName} generating schemas.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DOMINO-MIB::ciC22oSchemaInvokeEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.22.1.2

SNMP Trap Number : 10

## Variables

The SchemaInvoke message contains the following variables:

Table 1. SchemaInvoke Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. ActivityName

The activity name that invoked the generation of schemas.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DOMINO-MIB::ciC22oEv10ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.22.1.2.1.10.1

#### 6. Name

The name of the schema that is not in the configuration document.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DOMINO-MIB::ciC22oEv10Name
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.22.1.2.1.10.2

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## StopSuccess

The specified activity name is successfully stopped.

Level : *Info*

Log Message : *Activity {ActivityName} is stopped successfully.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DOMINO-MIB::ciC22oStopSuccessEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.22.1.2

SNMP Trap Number : 8

## Variables

The StopSuccess message contains the following variables:

Table 1. StopSuccess Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. ActivityName

The activity name that is stopped successfully.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DOMINO-MIB::ciC22oEv8ActivityName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.22.1.2.1.8.1

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# Domino Internal Notifications

Provides a comprehensive list of internal notifications sent from the Domino Module.

- **ConnectError**  
An error occurred while processing the connection parameters sent as part of the request in the activity.
- **InitializationError**  
Exception while initializing Lotus Domino connector.
- **UnmarshalError**  
An error occurred while reading input connection parameters in the activity.

**Parent topic:** [Domino Module](#)

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## ConnectError

---

An error occurred while processing the connection parameters sent as part of the request in the activity.

Level : *Severe*

Log Message : *Error while processing the connection parameters sent as part of the request. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DOMINO-MIB::ciC22iConnectErrorEv13

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.22.1.3

SNMP Trap Number : 13

## Variables

---

The ConnectError message contains the following variables:

Table 1. ConnectError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## InitializationError

Exception while initializing Lotus Domino connector.

Level : *Severe*

Log Message : *Exception while initializing Lotus Domino connector.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DOMINO-MIB::ciC22iInitializationErrorEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.22.1.3

SNMP Trap Number : 1

## Variables

The InitializationError message contains the following variables:

Table 1. InitializationError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## UnmarshalError

An error occurred while reading input connection parameters in the activity.

Level : *Severe*

Log Message : *Error while trying to read optional connection input parameter. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-DOMINO-MIB::ciC22iUnmarshalErrorEv12

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.22.1.3

SNMP Trap Number : 12

## Variables

The UnmarshalError message contains the following variables:

Table 1. UnmarshalError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [Domino Internal Notifications](#)

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## Email Module

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The Email Module provides connectivity to POP3 and SMTP mail servers. This section contains details for the messages delivered from the Email Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the Email Module.

MIB Name : **CASTIRON-COMP-EMAIL-MIB**

MIB OID : .1.3.6.1.4.1.13336.2.2.3.7

The following table provides an alphabetical list of all notifications that can be issued by the Email Module.

Table 1. Notifications issued by the Email Module

Notification	Level	System	Description
BodyNull	Severe	Orchestration	The 'body' input parameter from the container is null. This is an error condition.
ConPoolReleaseError	Warning	Orchestration	Error while closing the connection pool.
ConnectError	Severe	Orchestration	The email activity operation failed because a connection to the server could not be established.
ConnectErrorRetry	Warning	Orchestration	The email activity operation failed while trying to connect to the server. This will cause a retry.
ConnectHeaderAbsent	Info	Orchestration	The optional input header - emailConnection - is mapped.
ConnectHeaderPresent	Info	Orchestration	The optional input header - emailConnection - is mapped.
ConnectionPoolReturn	Warning	Orchestration	Error occurred while returning connection to pool.
CouldNotGetHostIP	Warning	Orchestration	Error occurred while getting IP of the router. Continuing activity without the host IP.
DisconnectException	Warning	Orchestration	Error while trying to disconnect from server. Discarding error and continuing the activity.
EmailMatched	Info	Orchestration	Found an email matching From and subject fields specified in configuration.
EmailSent	Info	Orchestration	The activity successfully sent email to the server.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
EndpointData	Info	Orchestration	The information regarding the email endpoint data.
IncorrectPort	Warning	Orchestration	The email port needs to be a positive integer. Defaulting to 110 in case its not specified as positive integer.
IncorrectSmtpPort	Warning	Orchestration	The email port needs to be a positive integer. Defaulting to 25 in case its not specified as positive integer.
IncorrectSmtpTimeout	Warning	Orchestration	The connection timeout needs to be a positive integer. Defaulting to 300 seconds in case its not specified as positive integer
IncorrectTimeout	Warning	Orchestration	The connection timeout needs to be a positive integer. Defaulting to 300 seconds in case its not specified as positive integer
InvalidAddressFormat	Warning	Orchestration	The email address in the specified field is in incorrect format.
InvalidEmailID	Warning	Orchestration	The email id specified is not valid.
MailHeaderAbsent	Info	Orchestration	The optional input header - mailheader - is not mapped.
MailHeaderPresent	Info	Orchestration	The optional input header - mailheader - is mapped.
MailsDeleted	Info	Orchestration	The mails processed in the current poll have been deleted from the server.
MailsToDelete	Info	Orchestration	There are some mails to be deleted as they were processed earlier.
MakeConPoolError	Warning	Orchestration	Error while creating the connection.
NewConnectEverytime	Info	Orchestration	The additional property 'smtpNewConnEveryTime' was added to connection pool.
NoEmailMatched	Info	Orchestration	Could not find an email matching From and subject fields specified in configuration.
NoMailOnServer	Info	Orchestration	No mail was found on server.
PatternIncorrect	Severe	Orchestration	Pattern specified in the activity is incorrect.
Pop3ConfigParams	Info	Orchestration	Configuration parameters specified in the activity.
Pop3Connected	Info	Orchestration	The activity was successfully able to connect to the email server.
Pop3DataError	Severe	Orchestration	A pop3 data error occurred while executing the activity.
Pop3InternalError	Severe	Orchestration	Internal error occurred while executing pop3 activity.
Pop3MailSent	Info	Orchestration	Activity has outputted 'mailheader' and 'body' output parameters. Mail marked for deletion from server
Pop3NumMails	Info	Orchestration	Number of mails found on the email server.
Pop3ServerError	Severe	Orchestration	A pop3 command unexpectedly returned an error while executing the activity.
SaveStateError	Warning	Orchestration	Error occurred while trying to save duplist state after disconnect. Will cleanup in next poll.
SetBCCFieldValue	Info	Orchestration	Setting the value of 'BCC' field to specified value
SetCCFieldValue	Info	Orchestration	Setting the value of 'CC' field to specified value
SetFromFieldValue	Info	Orchestration	Setting the value of 'From' field to specified value
SetSubjectFieldValue	Info	Orchestration	Setting the value of the 'Subject' field to the specified value.
SetTimeout	Info	Orchestration	Setting the timeout to specified value.
SetToFieldValue	Info	Orchestration	Setting the value of 'To' field to specified value
SmtpConfigParams	Info	Orchestration	Information regarding configuration parameters specified in email activity.
SmtpConnectFailed	Severe	Orchestration	The email activity operation failed because a connection to the server could not be established.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
SmtpConnectRetry	Warning	Orchestration	The email activity operation failed while trying to connect to the server. This will cause a retry.
SmtpConnected	Info	Orchestration	The activity was successfully able to connect to the email server.
SmtpDataError	Severe	Orchestration	Smtp data error occurred while executing the activity.
SmtpDisconnectError	Warning	Orchestration	Error while trying to disconnect from server. Discarding error and continuing the activity.
SmtpEndpointData	Info	Orchestration	The information regarding the email endpoint data.
SmtpInternalError	Severe	Orchestration	Internal error occurred while executing smtp activity.
SmtpSendEmail	Info	Orchestration	The activity is sending email to the server.
SmtpTimeout	Info	Orchestration	Setting the timeout to specified value.
SubjectPatternError	Severe	Orchestration	Subject pattern specified in the activity is incorrect.
ToAndCCEmpty	Severe	Orchestration	There was no valid To, CC, BCC specified in the activity.

- [Email Connection Notifications](#)  
Provides a comprehensive list of connection notifications sent from the Email Module.
- [Email Operation Notifications](#)  
Provides a comprehensive list of operation notifications sent from the Email Module.
- [Email Internal Notifications](#)  
Provides a comprehensive list of internal notifications sent from the Email Module.

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## Email Connection Notifications

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Provides a comprehensive list of connection notifications sent from the Email Module.

- [ConPoolReleaseError](#)  
Error while closing the connection pool.
- [ConnectError](#)  
The email activity operation failed because a connection to the server could not be established.
- [ConnectErrorRetry](#)  
The email activity operation failed while trying to connect to the server. This will cause a retry.
- [ConnectHeaderAbsent](#)  
The optional input header - emailConnection - is mapped.
- [ConnectHeaderPresent](#)  
The optional input header - emailConnection - is mapped.
- [ConnectionPoolReturn](#)  
Error occurred while returning connection to pool.
- [DisconnectException](#)  
Error while trying to disconnect from server. Discarding error and continuing the activity.
- [EndpointData](#)  
The information regarding the email endpoint data.
- [IncorrectPort](#)  
The email port needs to be a positive integer. Defaulting to 110 in case its not specified as positive integer.
- [IncorrectSmtpPort](#)  
The email port needs to be a positive integer. Defaulting to 25 in case its not specified as positive integer.
- [IncorrectSmtpTimeout](#)  
The connection timeout needs to be a positive integer. Defaulting to 300 seconds in case its not specified as positive integer

- [IncorrectTimeout](#)  
The connection timeout needs to be a positive integer. Defaulting to 300 seconds in case its not specified as positive integer
- [MakeConPoolError](#)  
Error while creating the connection.
- [NewConnectEverytime](#)  
The additional property 'smtpNewConnEveryTime' was added to connection pool.
- [Pop3Connected](#)  
The activity was successfully able to connect to the email server.
- [SetTimeout](#)  
Setting the timeout to specified value.
- [SmtpConnectFailed](#)  
The email activity operation failed because a connection to the server could not be established.
- [SmtpConnectRetry](#)  
The email activity operation failed while trying to connect to the server. This will cause a retry.
- [SmtpConnected](#)  
The activity was successfully able to connect to the email server.
- [SmtpDisconnectError](#)  
Error while trying to disconnect from server. Discarding error and continuing the activity.
- [SmtpEndpointData](#)  
The information regarding the email endpoint data.
- [SmtpTimeout](#)  
Setting the timeout to specified value.

**Parent topic:** [Email Module](#)

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## ConPoolReleaseError

---

Error while closing the connection pool.

Level : *Warning*

Log Message : *Error while closing the connection pool. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cConPoolReleaseErrorEv21

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 21

## Variables

---

The ConPoolReleaseError message contains the following variables:

Table 1. ConPoolReleaseError Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [Email Connection Notifications](#)

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## ConnectError

---

The email activity operation failed because a connection to the server could not be established.

Level : *Severe*

Log Message : *Unable to connect to server after {NumberOfRetryAttempts} attempts. Error is: {Message}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cConnectErrorEv4

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 4

## Variables

---

The ConnectError message contains the following variables:

Table 1. ConnectError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. NumberOfRetryAttempts</b>
The total number of attempted retries.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7cEv4NumberOfRetryAttempts</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.4.1</li> </ul>
<b>6. Message</b>
Textual description of the error.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.2</li> </ul>

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## ConnectErrorRetry

---

The email activity operation failed while trying to connect to the server. This will cause a retry.

Level : *Warning*

Log Message : *Unable to connect to server. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cConnectErrorRetryEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 5

## Variables

---

The ConnectErrorRetry message contains the following variables:

Table 1. ConnectErrorRetry Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>
<b>6. RetryAttemptNumber</b>  The current number of retries. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7cEv5RetryAttemptNumber</li></ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.5.2

## 7. TotalRetryAttempts

The specified number of attempts to connect to the server before stopping.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7cEv5TotalRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.5.3

## 8. IntervalForRetries

The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7cEv5IntervalForRetries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.5.4

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## ConnectHeaderAbsent

The optional input header - emailConnection - is mapped.

Level : *Info*

Log Message : *Optional input 'emailConnection' parameter is not mapped.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cConnectHeaderAbsentEv13

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 13

## Variables

The ConnectHeaderAbsent message contains the following variables:

Table 1. ConnectHeaderAbsent Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## ConnectHeaderPresent

The optional input header - emailConnection - is mapped.

Level : *Info*

Log Message : *Optional input 'emailConnection' parameter is mapped.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cConnectHeaderPresentEv12

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 12

## Variables

The ConnectHeaderPresent message contains the following variables:

Table 1. ConnectHeaderPresent Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## ConnectionPoolReturn

Error occurred while returning connection to pool.

Level : *Warning*

Log Message : *Error while returning connection to pool. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cConnectionPoolReturnEv20

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 20

## Variables

The ConnectionPoolReturn message contains the following variables:

Table 1. ConnectionPoolReturn Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## DisconnectException

Error while trying to disconnect from server. Discarding error and continuing the activity.

Level : *Warning*

Log Message : *Error while trying to disconnect from server. Discarding error: {Message}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cDisconnectExceptionEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 7

## Variables

The DisconnectException message contains the following variables:

Table 1. DisconnectException Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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# EndpointData

The information regarding the email endpoint data.

Level : *Info*

Log Message : *Endpoint Parameters: Host: "{HostName}", Port: {Port}, User: "{Username}"*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cEndpointDataEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 6

## Variables

The EndpointData message contains the following variables:

Table 1. EndpointData Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. HostName</b>  The host name specified in email endpoint. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7cEv6HostName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.6.1</li></ul>
<b>6. Port</b>  The port number specified in email endpoint. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7cEv6Port</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.6.2</li></ul>
<b>7. Username</b>  The user name specified in email endpoint. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7cEv6Username</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.6.3</li></ul>

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## IncorrectPort

---

The email port needs to be a positive integer. Defaulting to 110 in case its not specified as positive integer.

Level : *Warning*

Log Message : *Port needs to be positive integer. Specified as: |"{PortNumber}|". Defaulted to 110.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cIncorrectPortEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 1

## Variables

---

The IncorrectPort message contains the following variables:

Table 1. IncorrectPort Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. PortNumber</b>  Port number specified for email which caused an error.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7cEv1PortNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.1

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## IncorrectSmtpport

The email port needs to be a positive integer. Defaulting to 25 in case its not specified as positive integer.

Level : *Warning*

Log Message : *Port needs to be positive integer. Specified as: |"PortNumber}|". Defaulted to 25.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cIncorrectSmtpportEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 9

## Variables

The IncorrectSmtpport message contains the following variables:

Table 1. IncorrectSmtpport Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. PortNumber

Port number specified for email which caused an error.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7cEv9PortNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.9.1

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## IncorrectSmtpTimeout

The connection timeout needs to be a positive integer. Defaulting to 300 seconds in case its not specified as positive integer

Level : *Warning*

Log Message : *Timeout needs to be positive integer. Specified as: |'{Timeout}'|. Defaulted to 300 seconds.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cIncorrectSmtpTimeoutEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 10

## Variables

The IncorrectSmtpTimeout message contains the following variables:

Table 1. IncorrectSmtpTimeout Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Timeout

Timeout specified for email which caused an error.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7cEv10Timeout
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.10.1

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## IncorrectTimeout

The connection timeout needs to be a positive integer. Defaulting to 300 seconds in case its not specified as positive integer

Level : *Warning*

Log Message : *Timeout needs to be positive integer. Specified as: |"{'Timeout'}|". Defaulted to 300 seconds.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cIncorrectTimeoutEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 2

## Variables

The IncorrectTimeout message contains the following variables:

Table 1. IncorrectTimeout Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Timeout

Timeout specified for email which caused an error.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7cEv2Timeout
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.7.1.1.1.2.1

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## MakeConPoolError

Error while creating the connection.

Level : *Warning*

Log Message : *Error while creating the connection to destination. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cMakeConPoolErrorEv22

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 22

## Variables

The MakeConPoolError message contains the following variables:

Table 1. MakeConPoolError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## NewConnectEverytime

The additional property 'smtpNewConnEveryTime' was added to connection pool.

Level : *Info*

Log Message : Additional property {PropertyName} set to {PropertyValue} so setup connection pool.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cNewConnectEverytimeEv16

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 16

## Variables

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The NewConnectEverytime message contains the following variables:

Table 1. NewConnectEverytime Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5.PropertyName</b>  The new property added. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7cEv16PropertyName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.16.1</li></ul>
<b>6. PropertyValue</b>  Value of the new property added. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7cEv16PropertyValue</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.16.2</li></ul>

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# Pop3Connected

---

The activity was successfully able to connect to the email server.

Level : *Info*

Log Message : *Connected to the POP3 server.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cPop3ConnectedEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 3

## Variables

---

The Pop3Connected message contains the following variables:

Table 1. Pop3Connected Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/email/email\\_connection\\_pop3connected\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/email/email_connection_pop3connected_message.html)

# SetTimeout

---

Setting the timeout to specified value.

Level : *Info*

Log Message : *Setting timeout as {Timeout} milliseconds.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cSetTimeoutEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 8

## Variables

---

The SetTimeout message contains the following variables:

Table 1. SetTimeout Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Timeout</b>  The timeout value. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7cEv8Timeout</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.7.1.1.1.8.1</li></ul>

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## SmtpConnectFailed

---

The email activity operation failed because a connection to the server could not be established.

Level : *Severe*

Log Message : *Unable to connect to server after {NumberOfRetryAttempts} attempts. Error is: {Message}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cSmtpConnectFailedEv14

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 14

## Variables

---

The SmtpConnectFailed message contains the following variables:

Table 1. SmtpConnectFailed Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. NumberOfRetryAttempts</b>  The total number of attempted retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7cEv14NumberOfRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.14.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## SmtpConnectRetry

The email activity operation failed while trying to connect to the server. This will cause a retry.

Level : *Warning*

Log Message : *Unable to connect to server. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cSmtpConnectRetryEv15

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 15

## Variables

The SmtpConnectRetry message contains the following variables:

Table 1. SmtpConnectRetry Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

#### 6. RetryAttemptNumber

The current number of retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7cEv15RetryAttemptNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.15.2

#### 7. TotalRetryAttempts

The specified number of attempts to connect to the server before stopping.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7cEv15TotalRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.15.3

#### 8. IntervalForRetries

The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7cEv15IntervalForRetries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.15.4

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## SmtpConnected

---

The activity was successfully able to connect to the email server.

Level : *Info*

Log Message : Connected to the SMTP server.

System : Orchestration

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cSsmtpConnectedEv11

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 11

## Variables

---

The SsmtpConnected message contains the following variables:

Table 1. SsmtpConnected Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## SmtpDisconnectError

---

Error while trying to disconnect from server. Discarding error and continuing the activity.

Level : *Warning*

Log Message : Error while trying to disconnect from server. Discarding error: {Message}.

System : Orchestration

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cSsmtpDisconnectErrorEv18

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 18

## Variables

---

The SsmtpDisconnectError message contains the following variables:

Table 1. SsmtpDisconnectError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## SmtpEndpointData

The information regarding the email endpoint data.

Level : *Info*

Log Message : *Endpoint Parameters: Host: "{HostName}", Port: {Port}, User: "{Username}"*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cSmtpEndpointDataEv17

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 17

## Variables

The SmtpEndpointData message contains the following variables:

Table 1. SmtpEndpointData Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. HostName</b>  The host name specified in email endpoint. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7cEv17HostName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.7.1.1.1.17.1</li></ul>
<b>6. Port</b>

The port number specified in email endpoint.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7cEv17Port
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.17.2

## 7. Username

The user name specified in email endpoint.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7cEv17Username
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.17.3

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## SmtpTimeout

---

Setting the timeout to specified value.

Level : *Info*

Log Message : *Setting timeout as {Timeout} milliseconds.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7cSmtpTimeoutEv19

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.1

SNMP Trap Number : 19

## Variables

---

The SmtpTimeout message contains the following variables:

Table 1. SmtpTimeout Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Timeout

The timeout value.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7cEv19Timeout
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.19.1

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## Email Operation Notifications

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Provides a comprehensive list of operation notifications sent from the Email Module.

- [CouldNotGetHostIP](#)  
Error occurred while getting IP of the router. Continuing activity without the host IP.
- [EmailMatched](#)  
Found an email matching From and subject fields specified in configuration.
- [EmailSent](#)  
The activity successfully sent email to the server.
- [InvalidAddressFormat](#)  
The email address in the specified field is in incorrect format.
- [InvalidEmailID](#)  
The email id specified is not valid.
- [MailHeaderAbsent](#)  
The optional input header - mailheader - is not mapped.
- [MailHeaderPresent](#)  
The optional input header - mailheader - is mapped.
- [MailsDeleted](#)  
The mails processed in the current poll have been deleted from the server.
- [MailsToBeDeleted](#)  
There are some mails to be deleted as they were processed earlier.
- [NoEmailMatched](#)  
Could not find an email matching From and subject fields specified in configuration.
- [NoMailOnServer](#)  
No mail was found on server.
- [PatternIncorrect](#)  
Pattern specified in the activity is incorrect.

- [Pop3ConfigParams](#)  
Configuration parameters specified in the activity.
- [Pop3DataError](#)  
A pop3 data error occurred while executing the activity.
- [Pop3MailSent](#)  
Activity has outputted 'mailheader' and 'body' output parameters. Mail marked for deletion from server
- [Pop3NumMails](#)  
Number of mails found on the email server.
- [Pop3ServerError](#)  
A pop3 command unexpectedly returned an error while executing the activity.
- [SaveStateError](#)  
Error occurred while trying to save duplist state after disconnect. Will cleanup in next poll.
- [SetBCCFieldValue](#)  
Setting the value of 'BCC' field to specified value
- [SetCCFieldValue](#)  
Setting the value of 'CC' field to specified value
- [SetFromFieldValue](#)  
Setting the value of 'From' field to specified value
- [SetSubjectFieldValue](#)  
Setting the value of the 'Subject' field to the specified value.
- [SetToFieldValue](#)  
Setting the value of 'To' field to specified value
- [SmtpConfigParams](#)  
Information regarding configuration parameters specified in email activity.
- [SmtpDataError](#)  
Smtp data error occurred while executing the activity.
- [SmtpSendEmail](#)  
The activity is sending email to the server.
- [SubjectPatternError](#)  
Subject pattern specified in the activity is incorrect.

**Parent topic:** [Email Module](#)

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## CouldNotGetHostIP

---

Error occurred while getting IP of the router. Continuing activity without the host IP.

Level : *Warning*

Log Message : *Error while trying to get IP of router. Error is: {Message}. Continuing without getting IP.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-EMAIL-MIB::ciC7oCouldNotGetHostIPEv20*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.7.1.2*

SNMP Trap Number : *20*

## Variables

---

The CouldNotGetHostIP message contains the following variables:

Table 1. CouldNotGetHostIP Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. Message</b>
Textual description of the error.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li> </ul>

**Parent topic:** [Email Operation Notifications](#)

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## EmailMatched

---

Found an email matching From and subject fields specified in configuration.

Level : *Info*

Log Message : *Matched email with From: |'{FromPattern}'| and Subject: |'{SubjectPattern}'|.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oEmailMatchedEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 5

## Variables

The EmailMatched message contains the following variables:

Table 1. EmailMatched Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. FromPattern</b>  The value specified for From field. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7oEv5FromPattern</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.7.1.2.1.5.1</li></ul>
<b>6. SubjectPattern</b>  The value specified for subject field. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7oEv5SubjectPattern</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.7.1.2.1.5.2</li></ul>

Parent topic: [Email Operation Notifications](#)

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## EmailSent

---

The activity successfully sent email to the server.

Level : *Info*

Log Message : *Email sent to server.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-EMAIL-MIB::ciC7oEmailSentEv17*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.7.1.2*

SNMP Trap Number : *17*

## Variables

---

The EmailSent message contains the following variables:

Table 1. EmailSent Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## InvalidAddressFormat

---

The email address in the specified field is in incorrect format.

Level : *Warning*

Log Message : *The {Field} email address {EmailID} specified in optional parameters is not in correct format. Not setting the same.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oInvalidAddressFormatEv19

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 19

## Variables

---

The InvalidAddressFormat message contains the following variables:

Table 1. InvalidAddressFormat Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Field</b>  The specified field. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7oEv19Field</li></ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.2.1.19.1

## 6. EmailID

The email ID in incorrect format.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv19EmailID
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.2.1.19.2

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## InvalidEmailID

The email id specified is not valid.

Level : *Warning*

Log Message : *Email id is invalid: {EmailID}*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oInvalidEmailIDEv18

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 18

## Variables

The InvalidEmailID message contains the following variables:

Table 1. InvalidEmailID Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> </ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. EmailID

The invalid email id.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv18EmailID
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.2.1.18.1

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## MailHeaderAbsent

The optional input header - mailheader - is not mapped.

Level : *Info*

Log Message : *Optional input 'mailheader' parameter is not mapped.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oMailHeaderAbsentEv14

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 14

## Variables

The MailHeaderAbsent message contains the following variables:

Table 1. MailHeaderAbsent Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## MailHeaderPresent

The optional input header - mailheader - is mapped.

Level : *Info*

Log Message : *Optional input 'mailheader' parameter is mapped.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oMailHeaderPresentEv15

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 15

## Variables

The MailHeaderPresent message contains the following variables:

Table 1. MailHeaderPresent Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## MailsDeleted

The mails processed in the current poll have been deleted from the server.

Level : *Info*

Log Message : *Mails processed in this poll deleted from server.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oMailsDeletedEv12

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 12

## Variables

The MailsDeleted message contains the following variables:

Table 1. MailsDeleted Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## MailsToBeDeleted

There are some mails to be deleted as they were processed earlier.

Level : *Info*

Log Message : *{NumberOfEmails} mails to be deleted now as they were processed earlier.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oMailsToDeleteEv11

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 11

## Variables

The MailsToBeDeleted message contains the following variables:

Table 1. MailsToBeDeleted Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. NumberOfEmails

Number of mails to be deleted from the server.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv11NumberOfEmails
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.7.1.2.1.11.1

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## NoEmailMatched

Could not find an email matching From and subject fields specified in configuration.

Level : *Info*

Log Message : *No emails matched on the server.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oNoEmailMatchedEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 6

## Variables

The NoEmailMatched message contains the following variables:

Table 1. NoEmailMatched Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## NoMailOnServer

No mail was found on server.

Level : *Info*

Log Message : *No mail found on the server.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oNoMailOnServerEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 7

## Variables

The NoMailOnServer message contains the following variables:

Table 1. NoMailOnServer Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## PatternIncorrect

Pattern specified in the activity is incorrect.

Level : Severe

Log Message : *From pattern |'{FromPattern}'| "incorrect. Error is: {Message}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oPatternIncorrectEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 2

## Variables

The PatternIncorrect message contains the following variables:

Table 1. PatternIncorrect Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. FromPattern

From Pattern Specified in the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv2FromPattern
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.7.1.2.1.2.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## Pop3ConfigParams

Configuration parameters specified in the activity.

Level : *Info*

Log Message : *Config parameters: From Pattern: |"{{FromPattern}}|", Subject Pattern: |"{{SubjectPattern}}|".*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oPop3ConfigParamsEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 1

## Variables

---

The Pop3ConfigParams message contains the following variables:

Table 1. Pop3ConfigParams Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. FromPattern</b>  From Pattern Specified in the activity. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7oEv1FromPattern</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.7.1.2.1.1.1</li></ul>
<b>6. SubjectPattern</b>  Subject Pattern Specified in the activity. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7oEv1SubjectPattern</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.7.1.2.1.1.2</li></ul>

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## Pop3DataError

---

A pop3 data error occurred while executing the activity.

Level : *Severe*

Log Message : *Data Error: {Message}*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oPop3DataErrorEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 8

## Variables

---

The Pop3DataError message contains the following variables:

Table 1. Pop3DataError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## Pop3MailSent

Activity has outputted 'mailheader' and 'body' output parameters. Mail marked for deletion from server

Level : *Info*

Log Message : *Outputted 'mailheader' and 'body' output parameters. Mail marked for deletion from server.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oPop3MailSentEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 10

## Variables

The Pop3MailSent message contains the following variables:

Table 1. Pop3MailSent Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## Pop3NumMails

Number of mails found on the email server.

Level : *Info*

Log Message : *Number of emails on server is {NumberOfMails}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oPop3NumMailsEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 4

## Variables

The Pop3NumMails message contains the following variables:

Table 1. Pop3NumMails Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. NumberOfMails

The number of mails found on email server.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv4NumberOfMails
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.2.1.4.1

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## Pop3ServerError

A pop3 command unexpectedly returned an error while executing the activity.

Level : *Severe*

Log Message : *Unexpected error from server: {Message}*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oPop3ServerErrorEv27

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 27

## Variables

The Pop3ServerError message contains the following variables:

Table 1. Pop3ServerError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## SaveStateError

Error occurred while trying to save duplist state after disconnect. Will cleanup in next poll.

Level : *Warning*

Log Message : *Error while trying to save duplist state after disconnect. Will cleanup in next poll.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oSaveStateErrorEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 9

## Variables

The SaveStateError message contains the following variables:

Table 1. SaveStateError Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## SetBCCFieldValue

Setting the value of 'BCC' field to specified value

Level : *Info*

Log Message : Setting BCC: |"{Value}"|.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oSetBCCFieldValueEv24

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 24

## Variables

The SetBCCFieldValue message contains the following variables:

Table 1. SetBCCFieldValue Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Value

The value to which BCC field is set.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv24Value
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.7.1.2.1.24.1

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## SetCCFieldValue

Setting the value of 'CC' field to specified value

Level : *Info*

Log Message : *Setting CC: | "{Value}|".*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oSetCCFieldValueEv23

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 23

## Variables

The SetCCFieldValue message contains the following variables:

Table 1. SetCCFieldValue Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Value

The value to which CC field is set.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv23Value
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.7.1.2.1.23.1

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## SetFromFieldValue

Setting the value of 'From' field to specified value

Level : *Info*

Log Message : *Setting From: |"{Value}|"*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oSetFromFieldValueEv22

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 22

## Variables

---

The SetFromFieldValue message contains the following variables:

Table 1. SetFromFieldValue Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Value</b>  The value to which From field is set. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7oEv22Value</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.7.1.2.1.22.1</li></ul>

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## SetSubjectFieldValue

---

Setting the value of the 'Subject' field to the specified value.

Level : *Info*

Log Message : Setting Subject: | "{Value}"| .

System : Orchestration

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oSetSubjectFieldValueEv25

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 25

## Variables

---

The SetSubjectFieldValue message contains the following variables:

Table 1. SetSubjectFieldValue Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Value</b>  The value to which subject field is set. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7oEv25Value</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.7.1.2.1.25.1</li></ul>

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## SetToFieldValue

Setting the value of 'To' field to specified value

Level : *Info*

Log Message : *Setting To: |"{Value}|".*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-EMAIL-MIB::ciC7oSetFieldValueEv21*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.7.1.2*

SNMP Trap Number : *21*

## Variables

The SetToFieldValue message contains the following variables:

Table 1. SetToFieldValue Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Value</b>  The value to which To field is set. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7oEv21Value</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.7.1.2.1.21.1</li></ul>

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## SmtpConfigParams

---

Information regarding configuration parameters specified in email activity.

Level : *Info*

Log Message : *Config Parameters: From: |"From"|, To: |"To"|, CC: |"CC"|, BCC: |"BCC"|, Subject: |"Subject"|.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oSmtpConfigParamsEv13

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 13

## Variables

---

The SmtpConfigParams message contains the following variables:

Table 1. SmtpConfigParams Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. From

The value specified for From field.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv13From
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.2.1.13.1

## 6. To

The value specified for To field.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv13To
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.2.1.13.2

## 7. CC

The value specified for CC field.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv13CC
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.2.1.13.3

## 8. BCC

The value specified for BCC field.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv13BCC
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.2.1.13.4

## 9. Subject

The value specified for subject field.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv13Subject
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.2.1.13.5

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## SmtpDataError

---

Smtp data error occurred while executing the activity.

Level : *Severe*

Log Message : *Data Error: {Message}*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oSmtpDataErrorEv16

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

## Variables

---

The SmtpDataError message contains the following variables:

Table 1. SmtpDataError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. Message</b>
Textual description of the error.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li> </ul>

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## SmtpSendEmail

---

The activity is sending email to the server.

Level : *Info*

Log Message : *Sending email to server.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-EMAIL-MIB::ciC7oSmtpSendEmailEv26*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.7.1.2*

SNMP Trap Number : *26*

## Variables

---

The SmtpSendEmail message contains the following variables:

Table 1. SmtpSendEmail Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## SubjectPatternError

---

Subject pattern specified in the activity is incorrect.

Level : Severe

Log Message : Subject pattern |"*{SubjectPattern}*"| incorrect. Error is: *{Message}*.

System : Orchestration

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7oSubjectPatternErrorEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.2

SNMP Trap Number : 3

## Variables

---

The SubjectPatternError message contains the following variables:

Table 1. SubjectPatternError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. SubjectPattern</b>  Subject Pattern Specified in the activity. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7oEv3SubjectPattern</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.7.1.2.1.3.1</li></ul>
<b>6. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

Parent topic: [Email Operation Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/email/email\\_operation\\_subjectpattern\\_error\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/email/email_operation_subjectpattern_error_message.html)

## Email Internal Notifications

---

Provides a comprehensive list of internal notifications sent from the Email Module.

- [BodyNull](#)  
The 'body' input parameter from the container is null. This is an error condition.
- [Pop3InternalError](#)  
Internal error occurred while executing pop3 activity.
- [SmtpInternalError](#)  
Internal error occurred while executing smtp activity.
- [ToAndCCEmpty](#)  
There was no valid To, CC, BCC specified in the activity.

**Parent topic:** [Email Module](#)

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## BodyNull

---

The 'body' input parameter from the container is null. This is an error condition.

Level : *Severe*

Log Message : *Input parameter 'body' from container is NULL.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-EMAIL-MIB::ciC7iBodyNullEv2*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.7.1.3*

SNMP Trap Number : 2

## Variables

---

The BodyNull message contains the following variables:

Table 1. BodyNull Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
• <b>Type</b> : String

- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

**Parent topic:** [Email Internal Notifications](#)

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## Pop3InternalError

Internal error occurred while executing pop3 activity.

Level : *Severe*

Log Message : *Error: {Message}*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7iPop3InternalErrorEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.3

SNMP Trap Number : 1

## Variables

The Pop3InternalError message contains the following variables:

Table 1. Pop3InternalError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [Email Internal Notifications](#)

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## SmtpInternalError

Internal error occurred while executing smtp activity.

Level : *Severe*

Log Message : *Error: {Message}*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7iSmtpInternalErrorEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.3

SNMP Trap Number : 3

## Variables

---

The SmtpInternalError message contains the following variables:

Table 1. SmtpInternalError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

Parent topic: [Email Internal Notifications](#)

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## ToAndCCEmpty

---

There was no valid To, CC, BCC specified in the activity.

Level : Severe

Log Message : No valid To, CC or BCC email address found.

System : Orchestration

SNMP Name : CASTIRON-COMP-EMAIL-MIB::ciC7iToAndCCEmptyEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.7.1.3

SNMP Trap Number : 4

## Variables

---

The ToAndCCEmpty message contains the following variables:

Table 1. ToAndCCEmpty Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>










**Parent topic:** [Email Internal Notifications](#)

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## FTP Module

---

The FTP Module provides connectivity to remote FTP servers. This section contains details for the messages delivered from the FTP Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the FTP Module.

MIB Name : *CASTIRON-COMP-FTP-MIB*

MIB OID : .1.3.6.1.4.1.13336.2.2.3.6

The following table provides an alphabetical list of all notifications that can be issued by the FTP Module.

Table 1. Notifications issued by the FTP Module

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
AppendAfter	Info	Orchestration	Response received after issuing an append command to the file on remote server.
AppendBefore	Info	Orchestration	In process of issuing an append command to the file on remote server.
ConnectionFailure	Severe	Orchestration	The FTP operation failed because a connection to the server could not be established.
ConnectionRetry	Warning	Orchestration	The FTP operation failed while trying to connect to the server. This will cause a retry.
DeleteAfter	Info	Orchestration	Response received when a file was deleted from the remote server.
DeleteBefore	Info	Orchestration	In process of deleting a file to the remote server.
DeleteDupListEntry	Info	Orchestration	Duplicate list is at maximum capacity. Removing a file from the duplicate list.
DeleteInfoSummary	Info	Orchestration	A complete summary of delete file activity configuration.
DirChangeAfter	Info	Orchestration	Changed to the specified directory on remote server.
DirChangeBefore	Info	Orchestration	Changing directory on the remote server.
DuplicateFile	Info	Orchestration	The file was previously processed by FTP poll activity.
EncodingException	Severe	Orchestration	The data encoding specified is not supported by FTP activity.
EndpointInfoSummary	Info	Orchestration	A complete summary of endpoint information specified.
FileNotMoved	Warning	Orchestration	File was not moved from original location as there is already another file in the destination location and overwrite option is false.
FileProcessed	Info	Orchestration	The file is processed by FTP activity and is left in place.
FileProcessingError	Warning	Orchestration	Error occurred while processing the file.
FtpPatternConversion	Warning	Orchestration	In the versions greater than 3.6 FTP use different style of pattern. If project is published from studio version before that, FTP will automatically change the pattern to new style.
GetAfter	Info	Orchestration	Response received when a file was downloaded to the remote server.
GetBefore	Info	Orchestration	In process of downloading a file to the remote server.
GetInfoSummary	Info	Orchestration	A complete summary of get file activity configuration.
InternalException	Severe	Orchestration	A internal error occurred while executing FTP activity.
ListAfter	Info	Orchestration	Response received when the directory was listed on the remote server.
ListBefore	Info	Orchestration	In process of listing a directory on the remote server.
ListFileSummary	Info	Orchestration	A complete summary of list file activity configuration.
NListAfter	Info	Orchestration	Response received when the directory was name listed on the remote server.
NListBefore	Info	Orchestration	In process of name listing a directory on the remote server.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
OperationError	Severe	Orchestration	FTP activity was unable to perform operation on FTP server.
PutAfter	Info	Orchestration	Response received when a file was uploaded to the remote server.
PutBefore	Info	Orchestration	In process of uploading a file to the remote server.
PutDuplicateFileName	Severe	Orchestration	File with same name exists on the specified server location. Configuration specified not to overwrite, so erroring out.
PutEmptyFileName	Severe	Orchestration	The file name specified in put activity is empty.
PutInfoSummary	Info	Orchestration	A complete summary of put file activity configuration.
RenameAfter	Info	Orchestration	Response received when a file was renamed to the remote server.
RenameBefore	Info	Orchestration	In process of renaming a file to the remote server.
RenameDupError	Severe	Orchestration	Rename operation errored as file with same name already exists.
RenameInfoSummary	Info	Orchestration	A complete summary of get file activity configuration.
SshFingerprintInfo	Info	Orchestration	SSH finger print information for communication with FTP server.
SshModeInfo	Info	Orchestration	SSH mode information for communication with FTP server.
TimeStampError	Warning	Orchestration	The timestamp command is not supported by the FTP server. Continuing the FTP activity operation using default timestamp.
TimestampCommand	Warning	Orchestration	The timestamp command is not supported by the FTP server. Continuing the FTP activity operation.
UnableToDelete	Warning	Orchestration	Error occurred while deleting file from the specified location.
UnableToMove	Warning	Orchestration	Error occurred while moving file to destination location.

- [FTP Connection Notifications](#)

Provides a comprehensive list of connection notifications sent from the FTP Module.

- [FTP Operation Notifications](#)

Provides a comprehensive list of operation notifications sent from the FTP Module.

- [FTP Internal Notifications](#)

Provides a comprehensive list of internal notifications sent from the FTP Module.

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## FTP Connection Notifications

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Provides a comprehensive list of connection notifications sent from the FTP Module.

- [ConnectionFailure](#)

The FTP operation failed because a connection to the server could not be established.

- [ConnectionRetry](#)

The FTP operation failed while trying to connect to the server. This will cause a retry.

**Parent topic:** [FTP Module](#)

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## ConnectionFailure

---

The FTP operation failed because a connection to the server could not be established.

Level : *Severe*

Log Message : *Unable to connect to the server |"{ServerName}"| after {NumberOfRetryAttempts} attempts. Error is: {Message}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-FTP-MIB::ciC6cConnectionFailureEv1*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.6.1.1*

SNMP Trap Number : *1*

## Variables

---

The ConnectionFailure message contains the following variables:

Table 1. ConnectionFailure Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ServerName</b>  The server name to which connection failed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6cEv1ServerName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.1.1.1

## 6. NumberOfRetryAttempts

The total number of attempted retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6cEv1NumberOfRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.1.1.2

## 7. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [FTP Connection Notifications](#)

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## ConnectionRetry

The FTP operation failed while trying to connect to the server. This will cause a retry.

Level : *Warning*

Log Message : *Unable to connect to the server |"{ServerName}|". Error is: {Message} Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6cConnectionRetryEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.1

SNMP Trap Number : 2

## Variables

The ConnectionRetry message contains the following variables:

Table 1. ConnectionRetry Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. ServerName

The server name to which connection failed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6cEv2ServerName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.1.1.2.1

### 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

### 7. RetryAttemptNumber

The current number of retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6cEv2RetryAttemptNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.1.1.2.3

### 8. TotalRetryAttempts

The specified number of attempts to connect to the server before stopping.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6cEv2TotalRetryAttempts
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.1.1.2.4

### 9. IntervalForRetries

The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6cEv2IntervalForRetries
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.1.1.2.5

**Parent topic:** [FTP Connection Notifications](#)

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## FTP Operation Notifications

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Provides a comprehensive list of operation notifications sent from the FTP Module.

- [AppendAfter](#)  
Response received after issuing an append command to the file on remote server.
- [AppendBefore](#)  
In process of issuing an append command to the file on remote server.
- [DeleteAfter](#)  
Response received when a file was deleted from the remote server.
- [DeleteBefore](#)  
In process of deleting a file to the remote server.
- [DeleteDupLstEntry](#)  
Duplicate list is at maximum capacity. Removing a file from the duplicate list.
- [DeleteInfoSummary](#)  
A complete summary of delete file activity configuration.
- [DirChangeAfter](#)  
Changed to the specified directory on remote server.
- [DirChangeBefore](#)  
Changing directory on the remote server.
- [DuplicateFile](#)  
The file was previously processed by FTP poll activity.
- [EndpointInfoSummary](#)  
A complete summary of endpoint information specified.
- [FileNotMoved](#)  
File was not moved from original location as there is already another file in the destination location and overwrite option is false.
- [FileProcessed](#)  
The file is processed by FTP activity and is left in place.
- [FileProcessingError](#)  
Error occurred while processing the file.
- [FtpPatternConversion](#)  
In the versions greater than 3.6 FTP use different style of pattern. If project is published from studio version before that, FTP will automatically change the pattern to new style.
- [GetAfter](#)  
Response received when a file was downloaded to the remote server.
- [GetBefore](#)  
In process of downloading a file to the remote server.
- [GetInfoSummary](#)  
A complete summary of get file activity configuration.
- [ListAfter](#)  
Response received when the directory was listed on the remote server.
- [ListBefore](#)  
In process of listing a directory on the remote server.
- [ListFileSummary](#)  
A complete summary of list file activity configuration.
- [NListAfter](#)  
Response received when the directory was name listed on the remote server.
- [NListBefore](#)  
In process of name listing a directory on the remote server.
- [OperationError](#)  
FTP activity was unable to perform operation on FTP server.
- [PutAfter](#)  
Response received when a file was uploaded to the remote server.

- [PutBefore](#)  
In process of uploading a file to the remote server.
- [PutDuplicateFileName](#)  
File with same name exists on the specified server location. Configuration specified not to overwrite, so erroring out.
- [PutEmptyFileName](#)  
The file name specified in put activity is empty.
- [PutInfoSummary](#)  
A complete summary of put file activity configuration.
- [RenameAfter](#)  
Response received when a file was renamed to the remote server.
- [RenameBefore](#)  
In process of renaming a file to the remote server.
- [RenameDupError](#)  
Rename operation errored as file with same name already exists.
- [RenameInfoSummary](#)  
A complete summary of get file activity configuration.
- [SshFingerprintInfo](#)  
SSH finger print information for communication with FTP server.
- [SshModeInfo](#)  
SSH mode information for communication with FTP server.
- [TimeStampError](#)  
The timestamp command is not supported by the FTP server. Continuing the FTP activity operation using default timestamp.
- [TimestampCommand](#)  
The timestamp command is not supported by the FTP server. Continuing the FTP activity operation.
- [UnableToDelete](#)  
Error occurred while deleting file from the specified location.
- [UnableToMove](#)  
Error occurred while moving file to destination location.

**Parent topic:** [FTP Module](#)

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## AppendAfter

---

Response received after issuing an append command to the file on remote server.

Level : *Info*

Log Message : *Append data to file "{FileName}" completed with return code {ResponseCode}.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-FTP-MIB::ciC6oAppendAfterEv4*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.6.1.2*

SNMP Trap Number : *4*

## Variables

---

The AppendAfter message contains the following variables:

Table 1. AppendAfter Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. FileName

Name of the file to which append command was issued.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv4FileName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.4.1

## 6. ResponseCode

Response code returned by the remote server on the append command.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv4ResponseCode
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.4.2

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## AppendBefore

---

In process of issuing an append command to the file on remote server.

Level : *Info*

Log Message : Appending data to file "{FileName}"

System : Orchestration

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oAppendBeforeEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 3

## Variables

---

The AppendBefore message contains the following variables:

Table 1. AppendBefore Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. FileName</b>  Name of the file to which append command is being issued. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv3FileName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.3.1</li></ul>

**Parent topic:** [FTP Operation Notifications](#)

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## DeleteAfter

Response received when a file was deleted from the remote server.

Level : *Info*

Log Message : *Deleted file "{FileName}" on server with return code {ResponseCode}*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oDeleteAfterEv12

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 12

## Variables

The DeleteAfter message contains the following variables:

Table 1. DeleteAfter Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. FileName</b>  Name of the file which was deleted. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv12FileName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.12.1</li></ul>
<b>6. ResponseCode</b>

Response code returned by the remote server when file was deleted.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv12ResponseCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.12.2

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## DeleteBefore

---

In process of deleting a file to the remote server.

Level : *Info*

Log Message : *Deleting file "{FileName}" on server.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-FTP-MIB::ciC6oDeleteBeforeEv11*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.6.1.2*

SNMP Trap Number : *11*

## Variables

---

The DeleteBefore message contains the following variables:

Table 1. DeleteBefore Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. FileName

Name of the file which is being deleted.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv11FileName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.11.1

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## DeleteDupLIstEntry

Duplicate list is at maximum capacity. Removing a file from the duplicate list.

Level : *Info*

Log Message : *Duplicate list is at capacity, removing file "{FileName}" from duplicate list.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oDeleteDupLIstEntryEv20

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 20

## Variables

The DeleteDupLIstEntry message contains the following variables:

Table 1. DeleteDupLIstEntry Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. FileName

File name removed from duplicate list to purge it.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv20FileName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.20.1

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## DeleteInfoSummary

---

A complete summary of delete file activity configuration.

Level : *Info*

Log Message : *Delete file summary - Directory: {DirName}, Filename: {FileName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oDeleteInfoSummaryEv34

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 34

## Variables

---

The DeleteInfoSummary message contains the following variables:

Table 1. DeleteInfoSummary Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. DirName

Directory name specified in the configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv34DirName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.34.1

### 6. FileName

File name specified in the configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv34FileName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.34.2

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## DirChangeAfter

---

Changed to the specified directory on remote server.

Level : *Info*

Log Message : *Changed directory to "{DirectoryName}" completed with return code {ResponseCode}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oDirChangeAfterEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

## Variables

---

The DirChangeAfter message contains the following variables:

Table 1. DirChangeAfter Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. DirectoryName</b>
Name of the directory on remote server.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv2DirectoryName</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.2.1</li> </ul>
<b>6. ResponseCode</b>
Response code returned by the remote server on the change directory command.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv2ResponseCode</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.2.2</li> </ul>

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## DirChangeBefore

Changing directory on the remote server.

Level : *Info*

Log Message : *Changing to directory "{DirectoryName}"*.

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-FTP-MIB::ciC6oDirChangeBeforeEv1*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.6.1.2*

SNMP Trap Number : *1*

## Variables

The DirChangeBefore message contains the following variables:

Table 1. DirChangeBefore Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. DirectoryName</b>  Name of the directory on remote server. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv1DirectoryName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.1.1</li></ul>

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/ftp/ftp\\_operation\\_dirchangebefore\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/ftp/ftp_operation_dirchangebefore_message.html)

## DuplicateFile

---

The file was previously processed by FTP poll activity.

Level : *Info*

Log Message : *File named "{FileName}" has already been processed previously. The previous timestamp was {Timestamp}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oDuplicateFileEv24

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 24

## Variables

---

The DuplicateFile message contains the following variables:

Table 1. DuplicateFile Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. FileName

The name of the file that was previously processed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv24FileName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.24.1

## 6. Timestamp

The time at which file was last processed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv24Timestamp
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.24.2

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# EndpointInfoSummary

---

A complete summary of endpoint information specified.

Level : *Info*

Log Message : *FTP Endpoint Summary - Host: {HostName}, Port: {PortName}, UserName: {UserName}, Protocol: {Protocol}, Timeout: {Timeout}, FTP Mode: {FtpMode}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oEndpointInfoSummaryEv36

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 36

## Variables

---

The EndpointInfoSummary message contains the following variables:

Table 1. EndpointInfoSummary Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity

- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. HostName

Host name specified in the endpoint configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv36HostName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.36.1

### 6. PortName

Port name specified in the endpoint configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv36PortName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.36.2

### 7. UserName

User name specified in the endpoint configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv36UserName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.36.3

### 8. Protocol

Protocol specified in the endpoint configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv36Protocol
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.36.4

### 9. Timeout

Timeout specified in the endpoint configuration.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv36Timeout
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.36.5

### 10. FtpMode

Active or Passive mode specified in the endpoint configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv36FtpMode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.36.6

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## FileNotMoved

---

File was not moved from original location as there is already another file in the destination location and overwrite option is false.

Level : *Warning*

Log Message : *File "{FileName}" kept in place, will not overwrite.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oFileNotMovedEv21

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 21

## Variables

---

The FileNotMoved message contains the following variables:

Table 1. FileNotMoved Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. FileName

The name of the file which was not moved.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv21FileName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.21.1

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## FileProcessed

---

The file is processed by FTP activity and is left in place.

Level : *Info*

Log Message : *Processed file "{FileName}"*. Leaving in place.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oFileProcessedEv25

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 25

## Variables

---

The FileProcessed message contains the following variables:

Table 1. FileProcessed Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. FileName

The name of the file that was processed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv25FileName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.25.1

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## FileProcessingError

---

Error occurred while processing the file.

Level : *Warning*

Log Message : *Error processing file "{FileName}" . Error is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oFileProcessingErrorEv26

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 26

## Variables

---

The FileProcessingError message contains the following variables:

Table 1. FileProcessingError Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. FileName

The name of the file that was not processed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv26FileName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.26.1

### 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## FtpPatternConversion

---

In the versions greater than 3.6 FTP use different style of pattern. If project is published from studio version before that, FTP will automatically change the pattern to new style.

Level : *Warning*

Log Message : *Automatically converting old style FTP filename pattern from "{OldStylePattern}" to "{NewStylePattern}". Please republish project from Studio verison 3.6 or later to eliminate this warning.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oFtpPatternConversionEv17

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 17

## Variables

---

The FtpPatternConversion message contains the following variables:

Table 1. FtpPatternConversion Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. OldStylePattern</b>  Old style pattern sent to FTP activity.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv17OldStylePattern</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.17.1</li></ul>
<b>6. NewStylePattern</b>  New style pattern automatically generated by FTP activity.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv17NewStylePattern</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.17.2</li></ul>

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# GetAfter

---

Response received when a file was downloaded to the remote server.

Level : *Info*

Log Message : *Downloaded file "{FileName}" from server with return code {ResponseCode}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oGetAfterEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 8

## Variables

---

The GetAfter message contains the following variables:

Table 1. GetAfter Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. FileName</b>  Name of the file which was downloaded. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv8FileName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.8.1</li></ul>
<b>6. ResponseCode</b>  Response code returned by the remote server when file was downloaded. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li></ul>

- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv8ResponseCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.8.2

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## GetBefore

In process of downloading a file to the remote server.

Level : *Info*

Log Message : *Downloading file "{FileName}" from server.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oGetBeforeEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 7

## Variables

The GetBefore message contains the following variables:

Table 1. GetBefore Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap. <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification. <ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. FileName

Name of the file which is being downloaded.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv7FileName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.7.1

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## GetInfoSummary

A complete summary of get file activity configuration.

Level : *Info*

Log Message : *Get file summary - Directory: {DirectoryName}, Filename: {FileName}, IsBinary? {BinaryOption}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oGetInfoSummaryEv30

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 30

## Variables

The GetInfoSummary message contains the following variables:

Table 1. GetInfoSummary Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. DirName

Directory name specified in the configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv30DirName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.30.1

#### 6. FileName

File name specified in the configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv30FileName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.30.2

#### 7. BinaryOption

Binary or Text value specified in the configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv30BinaryOption
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.30.3

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## ListAfter

Response received when the directory was listed on the remote server.

Level : *Info*

Log Message : *Listing completed with a return code {ResponseCode}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oListAfterEv14

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 14

## Variables

---

The ListAfter message contains the following variables:

Table 1. ListAfter Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ResponseCode</b>  Response code returned by the remote server when the directory was listed. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv14ResponseCode</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.14.1</li></ul>

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## ListBefore

---

In process of listing a directory on the remote server.

Level : *Info*

Log Message : Getting a listing for pattern "{Pattern}" for current directory.

System : Orchestration

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oListBeforeEv13

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 13

## Variables

---

The ListBefore message contains the following variables:

Table 1. ListBefore Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Pattern</b>  The pattern match used to list the directory. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv13Pattern</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.13.1</li></ul>

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## ListFileSummary

A complete summary of list file activity configuration.

Level : *Info*

Log Message : *List directory summary - Directory: {DirectoryName}, Pattern: {Pattern}, NLIST? {ListOption}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oListFileSummaryEv35

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 35

## Variables

The ListFileSummary message contains the following variables:

Table 1. ListFileSummary Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. DirName</b>  Directory name specified in the configuration. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv35DirName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.35.1</li></ul>
<b>6. Pattern</b>

Pattern specified in the configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv35Pattern
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.35.2

## 7. ListOption

List or NList option specified in the configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv35ListOption
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.35.3

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## NListAfter

---

Response received when the directory was name listed on the remote server.

Level : *Info*

Log Message : *Name listing completed with a return code {ResponseCode}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oNListAfterEv16

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 16

## Variables

---

The NListAfter message contains the following variables:

Table 1. NListAfter Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>



<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>



<b>3. JobID</b>
-----------------

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. ResponseCode

Response code returned by the remote server when the directory was name listed.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv16ResponseCode
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.16.1

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## NListBefore

---

In process of name listing a directory on the remote server.

Level : *Info*

Log Message : *Getting a name listing for pattern "{Pattern}" for current directory.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oNListBeforeEv15

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 15

## Variables

---

The NListBefore message contains the following variables:

Table 1. NListBefore Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Pattern

The pattern match used to name list the directory.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv15Pattern
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.15.1

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## OperationError

---

FTP activity was unable to perform operation on FTP server.

Level : *Severe*

Log Message : *Unable to perform operation |"{{OperationName}}|". Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oOperationErrorEv18

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 18

## Variables

---

The OperationError message contains the following variables:

Table 1. OperationError Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. OperationName

Name of the operation that could not be performed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv18OperationName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.18.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## PutAfter

---

Response received when a file was uploaded to the remote server.

Level : *Info*

Log Message : Uploaded file "{FileName}" to server with return code {ResponseCode}.

System : Orchestration

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oPutAfterEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 6

## Variables

---

The PutAfter message contains the following variables:

Table 1. PutAfter Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. FileName</b>  Name of the file which was uploaded. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv6FileName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.6.1</li></ul>
<b>6. ResponseCode</b>  Response code returned by the remote server when file was uploaded. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv6ResponseCode</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.6.2</li></ul>

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## PutBefore

---

In process of uploading a file to the remote server.

Level : *Info*

Log Message : *Uploading file "{FileName}" to server.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oPutBeforeEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 5

## Variables

---

The PutBefore message contains the following variables:

Table 1. PutBefore Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. FileName</b>  Name of the file which is being uploaded.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv5FileName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.5.1

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## PutDuplicateFileName

---

File with same name exists on the specified server location. Configuration specified not to overwrite, so erroring out.

Level : *Severe*

Log Message : *{FileName}*: File with the same name exists on the FTP server. It is a duplicate!

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oPutDuplicateFileNameEv28

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 28

## Variables

---

The PutDuplicateFileName message contains the following variables:

Table 1. PutDuplicateFileName Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. FileName

The name of file which already existed on the specified location.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv28FileName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.28.1

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## PutEmptyFileName

The file name specified in put activity is empty.

Level : *Severe*

Log Message : *Filename is empty. Please specify valid filename.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oPutEmptyFileNameEv29

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 29

## Variables

The PutEmptyFileName message contains the following variables:

Table 1. PutEmptyFileName Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## PutInfoSummary

A complete summary of put file activity configuration.

Level : *Info*

Log Message : *Put file summary - Directory: {DirectoryName}, Filename: {FileName}, Overwrite? {OverwriteOption}, IsBinary? {BinaryOption}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oPutInfoSummaryEv27

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 27

## Variables

The PutInfoSummary message contains the following variables:

Table 1. PutInfoSummary Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. DirName

Directory name specified in the configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv27DirName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.27.1

#### 6. FileName

File name specified in the configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv27FileName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.27.2

#### 7. OverwriteOption

Overwrite Option specified in the configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv27OverwriteOption
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.27.3

#### 8. BinaryOption

Binary or Text value specified in the configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv27BinaryOption
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.27.4

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## RenameAfter

Response received when a file was renamed to the remote server.

Level : *Info*

Log Message : Renamed file from "{SrcFileName}" to "{DestFileName}" with return code {ResponseCode}.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oRenameAfterEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 10

## Variables

---

The RenameAfter message contains the following variables:

Table 1. RenameAfter Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. SrcFileName</b>  Name of the file which was renamed. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv10SrcFileName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.10.1</li></ul>
<b>6. DestFileName</b>  Name of the file which the file was renamed to. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv10DestFileName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.10.2</li></ul>
<b>7. ResponseCode</b>  Response code returned by the remote server when file was renamed. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li></ul>

- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv10ResponseCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.10.3

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## RenameBefore

In process of renaming a file to the remote server.

Level : *Info*

Log Message : *Renaming file from "{SrcFileName}" to "{DestFileName}"*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oRenameBeforeEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 9

## Variables

The RenameBefore message contains the following variables:

Table 1. RenameBefore Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. SrcFileName

Name of the file which is being renamed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv9SrcFileName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.9.1

#### 6. DestFileName

Name of the file which the file is being renamed to.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv9DestFileName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.9.2

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## RenameDupError

Rename operation errored as file with same name already exists.

Level : *Severe*

Log Message : *{FileName}: File with the same name exists on the FTP server. It is a duplicate!*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oRenameDupErrorEv33

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 33

## Variables

The RenameDupError message contains the following variables:

Table 1. RenameDupError Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. FileName

The name of file for which rename operation failed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv33FileName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.33.1

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## RenameInfoSummary

A complete summary of get file activity configuration.

Level : *Info*

Log Message : *Rename file summary - fromDirectory: {DirName}, fromFilename: {FromFileName}, toPath: {ToPath}, Overwrite: {OverwriteOption}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oRenameInfoSummaryEv32

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 32

## Variables

The RenameInfoSummary message contains the following variables:

Table 1. RenameInfoSummary Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. DirName

Directory name specified in the configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv32DirName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.32.1

## 6. FromFileName

Source file name specified in the configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv32FromFileName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.32.2

## 7. ToPath

Destination path specified in the configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv32ToPath
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.32.3

## 8. OverwriteOption

Overwrite option specified in the configuration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv32OverwriteOption
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.32.4

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## SshFingerprintInfo

---

SSH finger print information for communication with FTP server.

Level : *Info*

Log Message : *Finger print for host: {HostName} is {FingerprintInfo}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oSshFingerprintInfoEv37

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 37

## Variables

---

The SshFingerprintInfo message contains the following variables:

Table 1. SshFingerprintInfo Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. HostName</b>  Host name for which finger print information is specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv37HostName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.37.1

## 6. FingerprintInfo

Finger print information for the specified host.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv37FingerprintInfo
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.37.2

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## SshModeInfo

SSH mode information for communication with FTP server.

Level : *Info*

Log Message : *The SFTP key access is: {ModeInformation}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oSshModeInfoEv38

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 38

## Variables

The SshModeInfo message contains the following variables:

Table 1. SshModeInfo Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. ModeInformation

SSH mode information for the communication with FTP server.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv38ModeInformation
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.38.1

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## TimeStampError

The timestamp command is not supported by the FTP server. Continuing the FTP activity operation using default timestamp.

Level : *Warning*

Log Message : *MDTM command is not supported by FTP server, using default timestamp of |"Jan 1, 1970|" instead.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oTimeStampErrorEv31

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 31

## Variables

The TimeStampError message contains the following variables:

Table 1. TimeStampError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## TimestampCommand

The timestamp command is not supported by the FTP server. Continuing the FTP activity operation.

Level : *Warning*

Log Message : *MDTM command is not supported by FTP server, using timestamp from listing instead. Please consult manual for possible side effects.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oTimestampCommandEv19

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 19

## Variables

The TimestampCommand message contains the following variables:

Table 1. TimestampCommand Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## UnableToDelete

---

Error occurred while deleting file from the specified location.

Level : *Warning*

Log Message : *Could not delete file "{FileName}" after processing. Error is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oUnableToDeleteEv23

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 23

## Variables

---

The UnableToDelete message contains the following variables:

Table 1. UnableToDelete Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. FileName

The name of file which was not deleted.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv23FileName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.23.1

### 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [FTP Operation Notifications](#)

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## UnableToMove

---

Error occurred while moving file to destination location.

Level : *Warning*

Log Message : *Could not move file "{FileName}" after processing. Error is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6oUnableToMoveEv22

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.6.1.2

SNMP Trap Number : 22

## Variables

The UnableToMove message contains the following variables:

Table 1. UnableToMove Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. FileName</b>  The name of file which was not moved. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv22FileName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.22.1</li></ul>
<b>6. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

Parent topic: [FTP Operation Notifications](#)

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# FTP Internal Notifications

---

Provides a comprehensive list of internal notifications sent from the FTP Module.

- [EncodingException](#)  
The data encoding specified is not supported by FTP activity.
- [InternalException](#)  
A internal error occurred while executing FTP activity.

**Parent topic:** [FTP Module](#)

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## EncodingException

---

The data encoding specified is not supported by FTP activity.

Level : *Severe*

Log Message : *The data encoding specified: |'{DataEncoding}'| is not supported.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-FTP-MIB::ciC6iEncodingExceptionEv2*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.6.1.3*

SNMP Trap Number : *2*

## Variables

---

The EncodingError message contains the following variables:

Table 1. EncodingError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li></ul>

- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. DataEncoding

The data encoding that is not supported by FTP activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6iEv2DataEncoding
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.3.1.2.1

**Parent topic:** [FTP Internal Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/ftp/ftp\\_internal\\_encodingerror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/ftp/ftp_internal_encodingerror_message.html)

## InternalException

A internal error occurred while executing FTP activity.

Level : *Severe*

Log Message : *General FTP module exception. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-FTP-MIB::ciC6iInternalExceptionEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.6.1.3

SNMP Trap Number : 1

## Variables

The InternalException message contains the following variables:

Table 1. InternalException Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## HTTP Module

The HTTP Module provides HTTP/HTTPS client and server facilities. This section contains details for the messages delivered from the HTTP Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the HTTP Module.

MIB Name : *CASTIRON-COMP-HTTP-MIB*

MIB OID : .1.3.6.1.4.1.13336.2.2.3.1

The following table provides an alphabetical list of all notifications that can be issued by the HTTP Module.

Table 1. Notifications issued by the HTTP Module

Notification	Level	System	Description
<a href="#">AcceptEncodingType</a>	Info	Orchestration	The type of Accept-Encoding in the request-header field.
<a href="#">ClientConMgrTimeout</a>	Info	Orchestration	Setting the client connection manager timeout value. This is configurable on the JConsole.
<a href="#">ClientIdleTimeout</a>	Info	Orchestration	The amount of idle time for the connection after which the connection can be reclaimed. This is configurable from the JConsole.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
ClientMaxTotalConn	Info	Orchestration	Setting the client connection manager maximum number of connections from the JConsole.
ClientReclaimPeriod	Info	Orchestration	The number of seconds to wait before the reclaim thread is run to reclaim an idle connection. This is set from the JConsole.
CommonHandlerError	Severe	Orchestration	An error occurred handling the request received by the activity. Possible reasons are I/O or operation exceptions.
CompressFormat	Info	Orchestration	Indicates the type of Content-Encoding in the response from the server.
ConnectionRetry	Warning	Orchestration	The send request operation failed while trying to connect to the server. This will cause a retry.
ContentEncodingType	Info	Orchestration	The type of Content-Encoding used in the header in the outgoing request.
DecompressedEncoding	Info	Orchestration	Content-Encoding of the incoming request to the receive activity.
EndpointInformation	Info	Orchestration	Request for endpoint information.
GeneralRequestFailed	Severe	Orchestration	The send request failed while executing the activity.
HttpListenerStop	Info	Orchestration	Information regarding the stopping of a listener on a specific port.
HttpLoopBackValues	Info	Orchestration	Loopback port values set by the user, on the JConsole, and persisted in the sysconf.
IdleConTimeoutStart	Info	Orchestration	The idle connection timeout thread is enabled.
IdleConTimeoutStop	Info	Orchestration	The idle connection thread is disabled.
IncomingContentEnc	Info	Orchestration	The Content-Encoding type in the request header received by the receive activity
LoopBackInitialize	Info	Orchestration	Loopback values for initializing the MBean. It is set on the JConsole.
ReadConnectionParam	Info	Orchestration	The input connection parameter is not mapped by the user.
ReadInputHeaders	Info	Orchestration	The input parameter header is not mapped by the user.
ReceiveActivate	Severe	Orchestration	The receive activity failed to activate.
ReceiveDeActivate	Severe	Orchestration	The receive activity failed to stop.
ReceiveIOError	Severe	Orchestration	An I/O error occurred while the receive activity processed the request. Possible cause might be a broken connection.
ReceiveInternalError	Severe	Orchestration	An error occurred while the receive activity processed the request.
ReceiveOperationError	Severe	Orchestration	An error occurred while processing the request received by the receive activity due to an unsupported Accept-Charset encoding.
ReceiveResponseBody	Info	Orchestration	The response sent by the receive activity to a request.
ReceiveSendReplyError	Severe	Orchestration	A connection problem caused an error while sending the response from the receive activity.
ReceiveURIPortInfo	Info	Orchestration	Information regarding the URI and Port where the server is listening.
RegisterKeyStore	Severe	Orchestration	An error occurred while registering the key store.
ReplyCompressFormat	Info	Orchestration	The Content-Encoding used by the send reply activity.
ReplyConnectionError	Severe	Orchestration	An error occurred while sending the response. Probable cause is a connection error.
ReplyGeneralError	Severe	Orchestration	An internal error occurred while sending the reply from the receive activity.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
ReplyHandlerNull	Severe	Orchestration	Connection handler stored in the receive activity and retrieved by the reply activity is null. This is an internal error and likely caused by an out of memory error or an appliance reboot while executing an activity.
ReplyUnMarshalHeader	Severe	Orchestration	An error occurred while reading input headers in the reply activity.
ReplyUnknownError	Severe	Orchestration	An unknown exception occurred while sending the response to the client.
RequestActivate	Severe	Orchestration	The request activity failed to activate.
RequestIgnoredHeader	Info	Orchestration	The header was ignored because it is not a supported type. Supported types are gzip, deflate or compress.
RequestParamsDetails	Info	Orchestration	Parameter details, including URL and method, used for the post activity
ResponseBodyBinary	Info	Orchestration	The response body is binary.
ResponseBodyNotBinary	Info	Orchestration	The response body is not binary.
ResponseDefinition	Info	Orchestration	Response definition received from the server for the performed post.
SendRequestConnection	Severe	Orchestration	The send request operation failed because a connection to the server could not be established.
SendRequestOperation	Severe	Orchestration	The Send Request operation failed either while starting the activity or while executing it. Caused by an I/O or operation exception.
ServerResponseCode	Info	Orchestration	Post response code received from the server.
SockCollectorFinish	Info	Orchestration	Information about the completion status of the Socket Janitor. The Socket Janitor is configured on the JConsole.
SockCollectorRunInfo	Info	Orchestration	Information about this run of the Socket Janitor. The Socket Janitor is configured on the JConsole.
SockCollectorSched	Info	Orchestration	Sets the frequency for garbage collection by the Socket Janitor. It is set on the JConsole.
StaleConnectionCheck	Info	Orchestration	Specifies if the stale connection check should be run on the connection manager. This is set (True or False) from the JConsole.
UnSupportedMedia	Warning	Orchestration	Request is an unsupported media type.
UnsolicitedEncoding	Severe	Orchestration	The server reply contains Content-Encoding which is not acceptable by the client.
UnsupportedEncoding	Severe	Orchestration	The Content-Encoding in the request header is not supported by the receive activity.

- [HTTP Connection Notifications](#)  
Provides a comprehensive list of connection notifications sent from the HTTP Module.
- [HTTP Operation Notifications](#)  
Provides a comprehensive list of operation notifications sent from the HTTP Module.
- [HTTP Internal Notifications](#)  
Provides a comprehensive list of internal notifications sent from the HTTP Module.

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## HTTP Connection Notifications

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Provides a comprehensive list of connection notifications sent from the HTTP Module.

- [ClientConMgrTimeout](#)  
Setting the client connection manager timeout value. This is configurable on the JConsole.
- [ClientIdleTimeout](#)  
The amount of idle time for the connection after which the connection can be reclaimed. This is configurable from the JConsole.
- [ClientMaxTotalConn](#)  
Setting the client connection manager maximum number of connections from the JConsole.
- [ClientReclaimPeriod](#)  
The number of seconds to wait before the reclaim thread is run to reclaim an idle connection. This is set from the JConsole.
- [ConnectionRetry](#)  
The send request operation failed while trying to connect to the server. This will cause a retry.
- [EndpointInformation](#)  
Request for endpoint information.
- [HttpLoopBackValues](#)  
Loopback port values set by the user, on the JConsole, and persisted in the sysconf.
- [ReadConnectionParam](#)  
The input connection parameter is not mapped by the user.
- [ReceiveActivate](#)  
The receive activity failed to activate.
- [ReceiveDeActivate](#)  
The receive activity failed to stop.
- [ReceiveIOError](#)  
An I/O error occurred while the receive activity processed the request. Possible cause might be a broken connection.
- [ReceiveSendReplyError](#)  
A connection problem caused an error while sending the response from the receive activity.
- [ReplyConnectionError](#)  
An error occurred while sending the response. Probable cause is a connection error.
- [SendRequestConnection](#)  
The send request operation failed because a connection to the server could not be established.
- [StaleConnectionCheck](#)  
Specifies if the stale connection check should be run on the connection manager. This is set (True or False) from the JConsole.

**Parent topic:** [HTTP Module](#)

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## ClientConMgrTimeout

---

Setting the client connection manager timeout value. This is configurable on the JConsole.

Level : *Info*

Log Message : *Setting the client connection manager timeout at {TimeoutValue} seconds.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-HTTP-MIB::ciC1cClientConMgrTimeoutEv11*

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.1

SNMP Trap Number : 11

## Variables

---

The ClientConMgrTimeout message contains the following variables:

Table 1. ClientConMgrTimeout Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. TimeoutValue</b>  The timeout value set for the client connection manager. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-HTTP-MIB::ciC1cEv11TimeoutValue</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.1.1.1.1.11.1</li></ul>

Parent topic: [HTTP Connection Notifications](#)

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## ClientIdleTimeout

---

The amount of idle time for the connection after which the connection can be reclaimed. This is configurable from the JConsole.

Level : *Info*

Log Message : *Setting the client connection idle timeout at {TimeoutValue} seconds.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-HTTP-MIB::ciC1cClientIdleTimeoutEv13*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.1.1.1*

SNMP Trap Number : *13*

## Variables

The ClientIdleTimeout message contains the following variables:

Table 1. ClientIdleTimeout Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. TimeoutValue</b>  The Idle Timeout value set for a client connection. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-HTTP-MIB::ciC1cEv13TimeoutValue</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.1.1.1.1.13.1</li></ul>

Parent topic: [HTTP Connection Notifications](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/http/http\\_connection\\_clientidletimeout\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/http/http_connection_clientidletimeout_message.html)

## ClientMaxTotalConn

---

Setting the client connection manager maximum number of connections from the JConsole.

Level : *Info*

Log Message : *Setting the client connection manager maximum number of connections at {MaxConnections}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1cClientMaxTotalConnEv12

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.1

SNMP Trap Number : 12

## Variables

---

The ClientMaxTotalConn message contains the following variables:

Table 1. ClientMaxTotalConn Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. MaxConnections</b>  The maximum number of connections for the client connection manager.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-HTTP-MIB::ciC1cEv12MaxConnections</li></ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.1.1.1.12.1

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## ClientReclaimPeriod

---

The number of seconds to wait before the reclaim thread is run to reclaim an idle connection. This is set from the JConsole.

Level : *Info*

Log Message : *Setting the client connection reclaim period at {ReclaimPeriodValue} seconds.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1cClientReclaimPeriodEv14

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1

SNMP Trap Number : 14

## Variables

---

The ClientReclaimPeriod message contains the following variables:

Table 1. ClientReclaimPeriod Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> </ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. ReclaimPeriodValue

The number of seconds to wait before the reclaim thread is run to reclaim an idle connection.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1cEv14ReclaimPeriodValue
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.1.1.1.1.14.1

**Parent topic:** [HTTP Connection Notifications](#)

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## ConnectionRetry

---

The send request operation failed while trying to connect to the server. This will cause a retry.

Level : *Warning*

Log Message : *Unable to connect to the server. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1cConnectionRetryEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.1

SNMP Trap Number : 2

---

## Variables

The ConnectionRetry message contains the following variables:

Table 1. ConnectionRetry Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

#### 6. RetryAttemptNumber

The current number of retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1cEv2RetryAttemptNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.1.1.1.2.2

#### 7. TotalRetryAttempts

The specified number of attempts to connect to the server before stopping.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1cEv2TotalRetryAttempts
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.1.1.1.2.3

#### 8. IntervalForRetries

The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1cEv2IntervalForRetries
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.1.1.1.2.4

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## EndpointInformation

Request for endpoint information.

Level : *Info*

Log Message : {*Message*}

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1cEndpointInformationEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.1

SNMP Trap Number : 4

## Variables

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The EndpointInformation message contains the following variables:

Table 1. EndpointInformation Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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# HttpLoopBackValues

Loopback port values set by the user, on the JConsole, and persisted in the sysconf.

Level : *Info*

Log Message : *The loopback port values persisted in the sysconf: {LoopBackString}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1cHttpLoopBackValuesEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.1

SNMP Trap Number : 9

## Variables

The HttpLoopBackValues message contains the following variables:

Table 1. HttpLoopBackValues Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. LoopBackString</b>  String containing the loopback port values set on the JConsole. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-HTTP-MIB::ciC1cEv9LoopBackString</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.1.1.1.1.9.1</li></ul>

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## ReadConnectionParam

The input connection parameter is not mapped by the user.

Level : *Info*

Log Message : *The input connection parameter is not mapped.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1cReadConnectionParamEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.1

SNMP Trap Number : 3

## Variables

The ReadConnectionParam message contains the following variables:

Table 1. ReadConnectionParam Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## ReceiveActivate

---

The receive activity failed to activate.

Level : *Severe*

Log Message : *Error while activating the activity. Exception: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1cReceiveActivateEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.1

SNMP Trap Number : 5

## Variables

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The ReceiveActivate message contains the following variables:

Table 1. ReceiveActivate Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## ReceiveDeActivate

The receive activity failed to stop.

Level : *Severe*

Log Message : *Error while stopping the receive activity. Exception: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1cReceiveDeActivateEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.1

SNMP Trap Number : 6

## Variables

The ReceiveDeActivate message contains the following variables:

Table 1. ReceiveDeActivate Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## ReceiveIOError

An I/O error occurred while the receive activity processed the request. Possible cause might be a broken connection.

Level : *Severe*

Log Message : *An I/O error occurred while processing the request. Exception: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1cReceiveIOErrorEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.1

SNMP Trap Number : 8

## Variables

The ReceiveIOError message contains the following variables:

Table 1. ReceiveIOError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## ReceiveSendReplyError

A connection problem caused an error while sending the response from the receive activity.

Level : *Severe*

Log Message : *A connection error occurred while sending the receive activity response. Exception: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1cReceiveSendReplyErrorEv7

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.1.1.1

SNMP Trap Number : 7

## Variables

The ReceiveSendReplyError message contains the following variables:

Table 1. ReceiveSendReplyError Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## ReplyConnectionError

An error occurred while sending the response. Probable cause is a connection error.

Level : Severe

Log Message : *A connection error occurred while sending the response. Error is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1cReplyConnectionErrorEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.1

SNMP Trap Number : 10

## Variables

The ReplyConnectionError message contains the following variables:

Table 1. ReplyConnectionError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## SendRequestConnection

The send request operation failed because a connection to the server could not be established.

Level : Severe

Log Message : *Unable to connect to server after {NumberOfRetryAttempts} attempts. Error is: {Message}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1cSendRequestConnectionEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.1

SNMP Trap Number : 1

## Variables

The SendRequestConnection message contains the following variables:

Table 1. SendRequestConnection Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. NumberOfRetryAttempts</b>  The total number of attempted retries. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-HTTP-MIB::ciC1cEv1NumberOfRetryAttempts</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.1.1.1.1.1</li></ul>
<b>6. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

Parent topic: [HTTP Connection Notifications](#)

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## StaleConnectionCheck

Specifies if the stale connection check should be run on the connection manager. This is set (True or False) from the JConsole.

Level : *Info*

Log Message : *Setting the stale connection check at {StaleConnection}.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-HTTP-MIB::ciC1cStaleConnectionCheckEv15*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.1.1.1*

SNMP Trap Number : *15*

## Variables

The StaleConnectionCheck message contains the following variables:

Table 1. StaleConnectionCheck Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. StaleConnection</b>  Value (True or False) of stale connection check. <ul style="list-style-type: none"><li>• <b>Type</b> : Boolean</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-HTTP-MIB::ciC1cEv15StaleConnection</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.1.1.1.1.15.1</li></ul>

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## HTTP Operation Notifications

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Provides a comprehensive list of operation notifications sent from the HTTP Module.

- [AcceptEncodingType](#)  
The type of Accept-Encoding in the request-header field.
- [CommonHandlerError](#)  
An error occurred handling the request received by the activity. Possible reasons are I/O or operation exceptions.
- [CompressFormat](#)  
Indicates the type of Content-Encoding in the response from the server.
- [ContentEncodingType](#)  
The type of Content-Encoding used in the header in the outgoing request.
- [DecompressedEncoding](#)  
Content-Encoding of the incoming request to the receive activity.
- [HttpListenerStop](#)  
Information regarding the stopping of a listener on a specific port.
- [IncomingContentEnc](#)  
The Content-Encoding type in the request header received by the receive activity
- [ReadInputHeaders](#)  
The input parameter header is not mapped by the user.
- [ReceiveOperationError](#)  
An error occurred while processing the request received by the receive activity due to an unsupported Accept-Charset encoding.
- [ReceiveResponseBody](#)  
The response sent by the receive activity to a request.
- [ReceiveURIPortInfo](#)  
Information regarding the URI and Port where the server is listening.
- [RegisterKeyStore](#)  
An error occurred while registering the key store.
- [ReplyCompressFormat](#)  
The Content-Encoding used by the send reply activity.
- [ReplyUnMarshalHeader](#)  
An error occurred while reading input headers in the reply activity.
- [RequestActivate](#)  
The request activity failed to activate.
- [RequestIgnoredHeader](#)  
The header was ignored because it is not a supported type. Supported types are gzip, deflate or compress.
- [RequestParamsDetails](#)  
Parameter details, including URL and method, used for the post activity
- [ResponseBodyBinary](#)  
The response body is binary.
- [ResponseBodyNotBinary](#)  
The response body is not binary.
- [ResponseDefinition](#)  
Response definition received from the server for the performed post.
- [SendRequestOperation](#)  
The Send Request operation failed either while starting the activity or while executing it. Caused by an I/O or operation exception.
- [ServerResponseCode](#)  
Post response code received from the server.
- [UnsupportedMedia](#)  
Request is an unsupported media type.
- [UnsolicitedEncoding](#)  
The server reply contains Content-Encoding which is not acceptable by the client.

- [UnsupportedEncoding](#)

The Content-Encoding in the request header is not supported by the receive activity.

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## AcceptEncodingType

The type of Accept-Encoding in the request-header field.

Level : *Info*

Log Message : *The type of Accept-Encoding in the request-header field is {AcceptEncodingValue}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1oAcceptEncodingTypeEv12

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.2

SNMP Trap Number : 12

## Variables

The AcceptEncodingType message contains the following variables:

Table 1. AcceptEncodingType Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> </ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. AcceptEncodingValue

The type of Accept-Encoding header.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1oEv12AcceptEncodingValue
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.1.1.2.1.12.1

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## CommonHandlerError

An error occurred handling the request received by the activity. Possible reasons are I/O or operation exceptions.

Level : Severe

Log Message : *An error occurred handling a receive request. Exception: {Message}*

System : Orchestration

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1oCommonHandlerErrorEv22

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.2

SNMP Trap Number : 22

## Variables

The CommonHandlerError message contains the following variables:

Table 1. CommonHandlerError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## CompressFormat

Indicates the type of Content-Encoding in the response from the server.

Level : *Info*

Log Message : *The response Content-Encoding from the server is {ContentEncodingValue}. Decompressing the body.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1oCompressFormatEv15

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.2

SNMP Trap Number : 15

## Variables

The CompressFormat message contains the following variables:

Table 1. CompressFormat Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. ContentEncodingValue

The type of Content-Encoding in the response header.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1oEv15ContentEncodingValue
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.1.1.2.1.15.1

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## ContentEncodingType

The type of Content-Encoding used in the header in the outgoing request.

Level : *Info*

Log Message : *The Content-Encoding header is {ContentEncodingValue}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-HTTP-MIB::ciC1oContentEncodingTypeEv11*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.1.1.2*

SNMP Trap Number : *11*

## Variables

The ContentEncodingType message contains the following variables:

Table 1. ContentEncodingType Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. ContentEncodingValue

The type of Content-Encoding used in the header.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1oEv11ContentEncodingValue
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.1.1.2.1.11.1

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## DecompressedEncoding

Content-Encoding of the incoming request to the receive activity.

Level : *Info*

Log Message : *The Content-Encoding of the incoming request is {ContentEncodingValue}. Decompressing the body.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1oDecompressedEncodingEv13

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.1.1.2

SNMP Trap Number : 13

## Variables

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The DecompressedEncoding message contains the following variables:

Table 1. DecompressedEncoding Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ContentEncodingValue</b>  Type of Content-Encoding header. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-HTTP-MIB::ciC1oEv13ContentEncodingValue</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.1.1.2.1.13.1</li></ul>

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## HttpListenerStop

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Information regarding the stopping of a listener on a specific port.

Level : *Info*

Log Message : There are no more activities to listen for on port {PortNumber}. Stopping the listener on port {PortNumber}.

System : Orchestration

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1oHttpListenerStopEv24

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.2

SNMP Trap Number : 24

## Variables

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The HttpListenerStop message contains the following variables:

Table 1. HttpListenerStop Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. PortNumber</b>  Port number where the listener is stopped. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-HTTP-MIB::ciC1oEv24PortNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.1.1.2.1.24.1</li></ul>

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## IncomingContentEnc

The Content-Encoding type in the request header received by the receive activity

Level : *Info*

Log Message : *Content-Encoding header received: {ContentEncodingHeader}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1oIncomingContentEncEv19

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.2

SNMP Trap Number : 19

## Variables

The IncomingContentEnc message contains the following variables:

Table 1. IncomingContentEnc Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ContentEncodingHeader</b>  The type of Content-Encoding in the request header. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-HTTP-MIB::ciC1oEv19ContentEncodingHeader</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.1.1.2.1.19.1</li></ul>

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## ReadInputHeaders

---

The input parameter header is not mapped by the user.

Level : *Info*

Log Message : *The input parameter header is not set.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-HTTP-MIB::ciC1oReadInputHeadersEv5*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.1.1.2*

SNMP Trap Number : *5*

## Variables

---

The ReadInputHeaders message contains the following variables:

Table 1. ReadInputHeaders Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/http/http\\_operation\\_readinputheaders\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/http/http_operation_readinputheaders_message.html)

## ReceiveOperationError

---

An error occurred while processing the request received by the receive activity due to an unsupported Accept-Charset encoding.

Level : *Severe*

Log Message : *An error occurred while trying to process an unsupported Accept-Charset encoding. Exception: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1oReceiveOperationErrorEv18

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.2

SNMP Trap Number : 18

## Variables

---

The ReceiveOperationError message contains the following variables:

Table 1. ReceiveOperationError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## ReceiveResponseBody

---

The response sent by the receive activity to a request.

Level : *Info*

Log Message : *Response is : {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1oReceiveResponseBodyEv21

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.2

SNMP Trap Number : 21

## Variables

---

The ReceiveResponseBody message contains the following variables:

Table 1. ReceiveResponseBody Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## ReceiveURIPortInfo

---

Information regarding the URI and Port where the server is listening.

Level : *Info*

Log Message : *Parameters: URI: "{URIValue}", Port: {PortValue}*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1oReceiveURIPortInfoEv23

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.2

SNMP Trap Number : 23

## Variables

---

The ReceiveURIPortInfo message contains the following variables:

Table 1. ReceiveURIPortInfo Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. UriValue

The URI the server is listening on.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1oEv23UriValue
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.1.1.2.1.23.1

### 6. PortValue

The port number the server is listening on.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1oEv23PortValue
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.1.1.2.1.23.2

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## RegisterKeyStore

---

An error occurred while registering the key store.

Level : Severe

Log Message : *An error occurred while setting the key store. Exception: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1oRegisterKeyStoreEv17

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.1.1.2

SNMP Trap Number : 17

## Variables

---

The RegisterKeyStore message contains the following variables:

Table 1. RegisterKeyStore Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. Message</b>
Textual description of the error.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li> </ul>

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## ReplyCompressFormat

---

The Content-Encoding used by the send reply activity.

Level : *Info*

Log Message : *The response Content-Encoding is {ContentEncodingValue}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1oReplyCompressFormatEv14

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.2

SNMP Trap Number : 14

## Variables

---

The ReplyCompressFormat message contains the following variables:

Table 1. ReplyCompressFormat Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ContentEncodingValue</b>  The type of Content-Encoding header. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-HTTP-MIB::ciC1oEv14ContentEncodingValue</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.1.1.2.1.14.1</li></ul>

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## ReplyUnMarshalHeader

---

An error occurred while reading input headers in the reply activity.

Level : *Severe*

Log Message : *An error occurred while reading headers. Exception: {Message}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-HTTP-MIB::ciC1oReplyUnMarshalHeaderEv25*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.1.1.2*

SNMP Trap Number : *25*

## Variables

The ReplyUnMarshalHeader message contains the following variables:

Table 1. ReplyUnMarshalHeader Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## RequestActivate

---

The request activity failed to activate.

Level : *Severe*

Log Message : *An exception occurred while activating the activity. The exception is :{Message}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-HTTP-MIB::ciC1oRequestActivateEv16*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.1.1.2*

SNMP Trap Number : *16*

## Variables

---

The RequestActivate message contains the following variables:

Table 1. RequestActivate Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li></ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## RequestIgnoredHeader

The header was ignored because it is not a supported type. Supported types are gzip, deflate or compress.

Level : *Info*

Log Message : *The Value:"{HeaderVal}" set for Http Header:"{HeaderName}" was ignored because the type is not supported.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1oRequestIgnoredHeaderEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.2

SNMP Trap Number : 1

## Variables

The RequestIgnoredHeader message contains the following variables:

Table 1. RequestIgnoredHeader Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> </ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. HeaderVal

The incorrect type.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1oEv1HeaderVal
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.1.1.2.1.1.1

## 6. HeaderName

The header containing the incorrect type.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1oEv1HeaderName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.1.1.2.1.1.2

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## RequestParamsDetails

Parameter details, including URL and method, used for the post activity

Level : *Info*

Log Message : *Parameters: URL: "{URL}", Method: "{MethodName}"*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1oRequestParamsDetailsEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.2

SNMP Trap Number : 6

## Variables

The RequestParamsDetails message contains the following variables:

Table 1. RequestParamsDetails Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. URL

The URL used to perform Http post.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1oEv6URL
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.1.1.2.1.6.1

### 6. MethodName

Method specified for the post activity

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1oEv6MethodName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.1.1.2.1.6.2

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## ResponseBodyBinary

The response body is binary.

Level : *Info*

Log Message : *The response is binary.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1oResponseBodyBinaryEv9

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.1.1.2

SNMP Trap Number : 9

## Variables

---

The ResponseBodyBinary message contains the following variables:

Table 1. ResponseBodyBinary Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## ResponseBodyNotBinary

---

The response body is not binary.

Level : *Info*

Log Message : *The response is not binary.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1oResponseBodyNotBinaryEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.2

SNMP Trap Number : 10

## Variables

---

The ResponseBodyNotBinary message contains the following variables:

Table 1. ResponseBodyNotBinary Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## ResponseDefinition

---

Response definition received from the server for the performed post.

Level : *Info*

Log Message : *Response definition received from the server: {ResponseDef}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-HTTP-MIB::ciC1oResponseDefinitionEv8*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.1.1.2*

SNMP Trap Number : *8*

## Variables

---

The ResponseDefinition message contains the following variables:

Table 1. ResponseDefinition Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ResponseDef</b>  Response message received from the server. For example, OK for success. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-HTTP-MIB::ciC1oEv8ResponseDef</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.1.1.2.1.8.1</li></ul>

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## SendRequestOperation

---

The Send Request operation failed either while starting the activity or while executing it. Caused by an I/O or operation exception.

Level : Severe

Log Message : *The request operation failed. Exception: {Message}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-HTTP-MIB::ciC1oSendRequestOperationEv3*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.1.1.2*

SNMP Trap Number : 3

## Variables

---

The SendRequestOperation message contains the following variables:

Table 1. SendRequestOperation Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## ServerResponseCode

Post response code received from the server.

Level : *Info*

Log Message : *Post response code received from the server: {ResponseCode}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1oServerResponseCodeEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.2

SNMP Trap Number : 7

## Variables

The ServerResponseCode message contains the following variables:

Table 1. ServerResponseCode Message Variables

<b>1. SerialNumber</b> <p>The serial number of the appliance sending the trap.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b> <p>The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b> <p>Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ResponseCode</b> <p>Response code received from the server. For example, 200 is for success.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-HTTP-MIB::ciC1oEv7ResponseCode</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.1.1.2.1.7.1</li></ul>

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## UnSupportedMedia

---

Request is an unsupported media type.

Level : *Warning*

Log Message : *Request is an unsupported media type. Response definition: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1oUnSupportedMediaEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.2

SNMP Trap Number : 4

## Variables

---

The UnSupportedMedia message contains the following variables:

Table 1. UnSupportedMedia Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [HTTP Operation Notifications](#)

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## UnsolicitedEncoding

---

The server reply contains Content-Encoding which is not acceptable by the client.

Level : *Severe*

Log Message : *The server response contained an unsolicited Content-Encoding: {ContentEncoding}. Acceptable values are: {AcceptEncoding}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-HTTP-MIB::ciC1oUnsolicitedEncodingEv2*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.1.1.2*

SNMP Trap Number : 2

## Variables

---

The UnsolicitedEncoding message contains the following variables:

Table 1. UnsolicitedEncoding Message Variables

<b>1. SerialNumber</b> <p>The serial number of the appliance sending the trap.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b> <p>The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li></ul>

- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. ContentEncoding

The Content-Encoding in the server reply.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1oEv2ContentEncoding
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.1.1.2.1.2.1

#### 6. AcceptEncoding

Encodings which are acceptable by the client.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1oEv2AcceptEncoding
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.1.1.2.1.2.2

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## UnsupportedEncoding

The Content-Encoding in the request header is not supported by the receive activity.

Level : *Severe*

Log Message : *Exception : {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1oUnsupportedEncodingEv20

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.2

SNMP Trap Number : 20

## Variables

The UnsupportedEncoding message contains the following variables:

Table 1. UnsupportedEncoding Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String

- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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# HTTP Internal Notifications

Provides a comprehensive list of internal notifications sent from the HTTP Module.

- [GeneralRequestFailed](#)  
The send request failed while executing the activity.
- [IdleConTimeoutStart](#)  
The idle connection timeout thread is enabled.
- [IdleConTimeoutStop](#)  
The idle connection thread is disabled.
- [LoopBackInitialize](#)  
Loopback values for initializing the MBean. It is set on the JConsole.
- [ReceiveInternalError](#)  
An error occurred while the receive activity processed the request.
- [ReplyGeneralError](#)  
An internal error occurred while sending the reply from the receive activity.

- [ReplyHandlerNull](#)  
Connection handler stored in the receive activity and retrieved by the reply activity is null. This is an internal error and likely caused by an out of memory error or an appliance reboot while executing an activity.
- [ReplyUnknownError](#)  
An unknown exception occurred while sending the response to the client.
- [SockCollectorFinish](#)  
Information about the completion status of the Socket Janitor. The Socket Janitor is configured on the JConsole.
- [SockCollectorRunInfo](#)  
Information about this run of the Socket Janitor. The Socket Janitor is configured on the JConsole.
- [SockCollectorSched](#)  
Sets the frequency for garbage collection by the Socket Janitor. It is set on the JConsole.

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## GeneralRequestFailed

---

The send request failed while executing the activity.

Level : *Severe*

Log Message : *The send request failed. Exception: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1iGeneralRequestFailedEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.3

SNMP Trap Number : 1

## Variables

---

The GeneralRequestFailed message contains the following variables:

Table 1. GeneralRequestFailed Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap. <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification. <ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## IdleConTimeoutStart

The idle connection timeout thread is enabled.

Level : *Info*

Log Message : *Starting the idle connection timeout thread.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1iIdleConTimeoutStartEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.3

SNMP Trap Number : 10

## Variables

The IdleConTimeoutStart message contains the following variables:

Table 1. IdleConTimeoutStart Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## IdleConTimeoutStop

The idle connection thread is disabled.

Level : *Info*

Log Message : *Stopping the idle connection timeout thread.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1iIdleConTimeoutStopEv11

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.3

SNMP Trap Number : 11

## Variables

The IdleConTimeoutStop message contains the following variables:

Table 1. IdleConTimeoutStop Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## LoopBackInitialize

Loopback values for initializing the MBean. It is set on the JConsole.

Level : *Info*

Log Message : *Initializing the values in the MBean: {LoopBackString}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1iLoopBackInitializeEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.3

SNMP Trap Number : 4

## Variables

The LoopBackInitialize message contains the following variables:

Table 1. LoopBackInitialize Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. LoopBackString

String containing the port values set for loopback.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1iEv4LoopBackString
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.1.1.3.1.4.1

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## ReceiveInternalError

An error occurred while the receive activity processed the request.

Level : *Severe*

Log Message : *An error occurred while processing the request. Exception: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1iReceiveInternalErrorEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.3

SNMP Trap Number : 3

## Variables

The ReceiveInternalError message contains the following variables:

Table 1. ReceiveInternalError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## ReplyGeneralError

An internal error occurred while sending the reply from the receive activity.

Level : Severe

Log Message : *A general error occurred while sending the response. Exception: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1iReplyGeneralErrorEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.3

SNMP Trap Number : 2

## Variables

---

The ReplyGeneralError message contains the following variables:

Table 1. ReplyGeneralError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## ReplyHandlerNull

---

Connection handler stored in the receive activity and retrieved by the reply activity is null. This is an internal error and likely caused by an out of memory error or an appliance reboot while executing an activity.

Level : Severe

Log Message : Connection handler retrieved from the call context is Null!

System : Orchestration

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1iReplyHandlerNullEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.3

SNMP Trap Number : 5

## Variables

---

The ReplyHandlerNull message contains the following variables:

Table 1. ReplyHandlerNull Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

Parent topic: [HTTP Internal Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/http/http\\_internal\\_replyhandlernull\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/http/http_internal_replyhandlernull_message.html)

## ReplyUnknownError

---

An unknown exception occurred while sending the response to the client.

Level : Severe

Log Message : An unknown exception occurred while sending the response to the client. Exception: {Message}

System : Orchestration

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1iReplyUnknownErrorEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.3

SNMP Trap Number : 6

## Variables

---

The ReplyUnknownError message contains the following variables:

Table 1. ReplyUnknownError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

Parent topic: [HTTP Internal Notifications](#)

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## SockCollectorFinish

Information about the completion status of the Socket Janitor. The Socket Janitor is configured on the JConsole.

Level : *Info*

Log Message : *The Socket Janitor has completed this run.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1iSockCollectorFinishEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.3

SNMP Trap Number : 9

## Variables

The SockCollectorFinish message contains the following variables:

Table 1. SockCollectorFinish Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

Parent topic: [HTTP Internal Notifications](#)

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## SockCollectorRunInfo

Information about this run of the Socket Janitor. The Socket Janitor is configured on the JConsole.

Level : *Info*

Log Message : *Information about this run of the Socket Janitor.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1iSockCollectorRunInfoEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.3

SNMP Trap Number : 8

## Variables

The SockCollectorRunInfo message contains the following variables:

Table 1. SockCollectorRunInfo Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

Parent topic: [HTTP Internal Notifications](#)

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## SockCollectorSched

---

Sets the frequency for garbage collection by the Socket Janitor. It is set on the JConsole.

Level : *Info*

Log Message : *Schedules the Socket Janitor to run every {TimeInterval}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-HTTP-MIB::ciC1iSockCollectorSchedEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.1.1.3

SNMP Trap Number : 7

## Variables

---

The SockCollectorSched message contains the following variables:

Table 1. SockCollectorSched Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. TimeInterval</b>  The time interval between runs of the Socket Janitor. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-HTTP-MIB::ciC1iEv7TimeInterval</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.1.1.3.1.7.1</li></ul>

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## JD Edwards Module

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JD Edwards Module. This section contains details for the messages delivered from the JD Edwards Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the JD Edwards Module.

MIB Name : *CASTIRON-COMP-JDE-MIB*

MIB OID : *.1.3.6.1.4.1.13336.2.2.3.15*

The following table provides an alphabetical list of all notifications that can be issued by the JD Edwards Module.

Table 1. Notifications issued by the JD Edwards Module

Notification	Level	System	Description
<a href="#">ActivateSuccessful</a>	Info	Orchestration	JDE activity was activated successfully.
<a href="#">ActivateUnSuccessful</a>	Info	Orchestration	The activity which was not activated successfully. Activity activated, will try to establish connectivity at activity execute time.
<a href="#">ActivityError</a>	Severe	Orchestration	The specified activity was not successful.
<a href="#">ActivitySuccessful</a>	Info	Orchestration	The specified activity was successful.
<a href="#">ClassesMissing</a>	Severe	Orchestration	JDE is missing classes required to start the activity. Please install the libraries from the WMC.
<a href="#">CloseConnectionError</a>	Severe	Orchestration	Error occurred while closing the connection to JDE.
<a href="#">ConnectException</a>	Warning	Orchestration	Error while connecting to JDE.
<a href="#">ConnectPoolRelease</a>	Warning	Orchestration	There was an error while closing the connection pool.
<a href="#">CreateSchemaError</a>	Severe	Orchestration	Error occurred while creating request schema for the business function.
<a href="#">DataStructureError</a>	Severe	Orchestration	Error occurred while creating a schema for the business function name.
<a href="#">DisconnectException</a>	Warning	Orchestration	Error while disconnecting from JDE.
<a href="#">GetConnectionError</a>	Severe	Orchestration	Error occurred while creating a connection to JDE.
<a href="#">JDEConnectError</a>	Severe	Orchestration	The JDE operation failed because a connection to the server could not be established.
<a href="#">JDEInternalerror</a>	Severe	Orchestration	Error occurred while processing the request.
<a href="#">JDERetryError</a>	Warning	Orchestration	The JDE operation failed while trying to connect to the server. This will cause a retry.
<a href="#">MakeConnectionError</a>	Warning	Orchestration	There was an error while creating a connection to destination.
<a href="#">NumberFormatError</a>	Warning	Orchestration	There was an error due to invalid port number.
<a href="#">ResourceCleanError</a>	Severe	Orchestration	Error occurred while closing the statement or result set in database.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
<a href="#">ResponseSchemaError</a>	Severe	Orchestration	Error occurred while creating response schema for the business function.
<a href="#">SetUpInfo</a>	Warning	Orchestration	JDE activity got warning or error messages while setting up the specified activity.
<a href="#">UnSupportedEncoding</a>	Severe	Orchestration	Error while processing unsupported encoding.

- [JD Edwards Connection Notifications](#)  
Provides a comprehensive list of connection notifications sent from the JD Edwards Module.
- [JD Edwards Operation Notifications](#)  
Provides a comprehensive list of operation notifications sent from the JD Edwards Module.
- [JD Edwards Internal Notifications](#)  
Provides a comprehensive list of internal notifications sent from the JD Edwards Module.

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## JD Edwards Connection Notifications

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Provides a comprehensive list of connection notifications sent from the JD Edwards Module.

- [ActivateUnSuccessful](#)  
The activity which was not activated successfully. Activity activated, will try to establish connectivity at activity execute time.
- [CloseConnectionError](#)  
Error occurred while closing the connection to JDE.
- [ConnectException](#)  
Error while connecting to JDE.
- [ConnectPoolRelease](#)  
There was an error while closing the connection pool.
- [DisconnectException](#)  
Error while disconnecting from JDE.
- [GetConnectionError](#)  
Error occurred while creating a connection to JDE.
- [JDEConnectError](#)  
The JDE operation failed because a connection to the server could not be established.
- [JDERetryError](#)  
The JDE operation failed while trying to connect to the server. This will cause a retry.
- [MakeConnectionError](#)  
There was an error while creating a connection to destination.

**Parent topic:** [JD Edwards Module](#)

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## ActivateUnSuccessful

The activity which was not activated successfully. Activity activated, will try to establish connectivity at activity execute time.

Level : *Info*

Log Message : *Error connecting to JDE system while activating activity {ActivityName}, error is: {Message}. Activity activated, will try to establish connectivity at activity execute time*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15cActivateUnSuccessfulEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.15.1.1

SNMP Trap Number : 1

## Variables

The ActivateUnSuccessful message contains the following variables:

Table 1. ActivateUnSuccessful Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>  The activity which was activated successfully. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JDE-MIB::ciC15cEv1ActivityName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.15.1.1.1.1.1</li></ul>
<b>6. Message</b>  Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [JD Edwards Connection Notifications](#)

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## CloseConnectionError

Error occurred while closing the connection to JDE.

Level : *Severe*

Log Message : *Exception while closing connection to JDE. The Exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15cCloseConnectionErrorEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.15.1.1

SNMP Trap Number : 8

## Variables

The CloseConnectionError message contains the following variables:

Table 1. CloseConnectionError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## ConnectException

Error while connecting to JDE.

Level : *Warning*

Log Message : *Error while connecting to JDE. The error is : {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15cConnectExceptionEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.15.1.1

SNMP Trap Number : 6

## Variables

The ConnectException message contains the following variables:

Table 1. ConnectException Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## ConnectPoolRelease

There was an error while closing the connection pool.

Level : *Warning*

Log Message : *Error while closing the connection pool. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15cConnectPoolReleaseEv4

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.15.1.1

SNMP Trap Number : 4

## Variables

The ConnectPoolRelease message contains the following variables:

Table 1. ConnectPoolRelease Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## DisconnectException

Error while disconnecting from JDE.

Level : *Warning*

Log Message : *Error while disconnecting from JDE. The error is : {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15cDisconnectExceptionEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.15.1.1

SNMP Trap Number : 7

## Variables

The DisconnectException message contains the following variables:

Table 1. DisconnectException Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## GetConnectionError

Error occurred while creating a connection to JDE.

Level : Severe

Log Message : *Exception while creating connection to JDE. The Exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15cGetConnectionErrorEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.15.1.1

SNMP Trap Number : 9

## Variables

---

The GetConnectionError message contains the following variables:

Table 1. GetConnectionError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

Parent topic: [JD Edwards Connection Notifications](#)

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## JDEConnectError

---

The JDE operation failed because a connection to the server could not be established.

Level : Severe

Log Message : Unable to connect to JDE after {NumberOfRetryAttempts} attempts. Error is: {Message}

System : Orchestration

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15cJDEConnectErrorEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.15.1.1

SNMP Trap Number : 2

## Variables

---

The JDEConnectError message contains the following variables:

Table 1. JDEConnectError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. NumberOfRetryAttempts</b>  The total number of attempted retries. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JDE-MIB::ciC15cEv2NumberOfRetryAttempts</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.15.1.1.1.2.1</li></ul>
<b>6. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## JDERetryError

---

The JDE operation failed while trying to connect to the server. This will cause a retry.

Level : *Warning*

Log Message : *Connection error while executing activity {ActivityName}. The error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s)*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15cJDERetryErrorEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.15.1.1

SNMP Trap Number : 3

## Variables

---

The JDERetryError message contains the following variables:

Table 1. JDERetryError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>

The activity which faced errors.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15cEv3ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.15.1.1.1.3.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

## 7. RetryAttemptNumber

The current number of retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15cEv3RetryAttemptNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.15.1.1.1.3.3

## 8. TotalRetryAttempts

The specified number of attempts to connect to the server before stopping.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15cEv3TotalRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.15.1.1.1.3.4

## 9. IntervalForRetries

The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15cEv3IntervalForRetries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.15.1.1.1.3.5

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## MakeConnectionError

---

There was an error while creating a connection to destination.

Level : *Warning*

Log Message : *Error while creating the connection to destination. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15cMakeConnectionErrorEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.15.1.1

## Variables

---

The MakeConnectionError message contains the following variables:

Table 1. MakeConnectionError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. Message</b>
Textual description of the error.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li> </ul>

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## JD Edwards Operation Notifications

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Provides a comprehensive list of operation notifications sent from the JD Edwards Module.

- **ActivateSuccessful**  
JDE activity was activated successfully.
- **ActivityError**  
The specified activity was not successful.
- **ActivitySuccessful**  
The specified activity was successful.
- **ClassesMissing**  
JDE is missing classes required to start the activity. Please install the libraries from the WMC.
- **CreateSchemaError**  
Error occurred while creating request schema for the business function.
- **DataStructureError**  
Error occurred while creating a schema for the business function name.
- **NumberFormatException**  
There was an error due to invalid port number.
- **ResourceCleanError**  
Error occurred while closing the statement or result set in database.
- **ResponseSchemaError**  
Error occurred while creating response schema for the business function.
- **SetUpInfo**  
JDE activity got warning or error messages while setting up the specified activity.
- **UnSupportedEncoding**  
Error while processing unsupported encoding.

**Parent topic:** [JD Edwards Module](#)

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## ActivateSuccessful

---

JDE activity was activated successfully.

Level : *Info*

Log Message : *Activity {ActivityName} activated successfully*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-JDE-MIB::ciC15oActivateSuccessfulEv5*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.15.1.2*

SNMP Trap Number : *5*

## Variables

---

The ActivateSuccessful message contains the following variables:

Table 1. ActivateSuccessful Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. ActivityName

The activity which was activated successfully.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15oEv5ActivityName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.15.1.2.1.5.1

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## ActivityError

---

The specified activity was not successful.

Level : *Severe*

Log Message : *Error while trying to execute activity {ActivityName}. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15oActivityErrorEv4

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.15.1.2

SNMP Trap Number : 4

## Variables

---

The ActivityError message contains the following variables:

Table 1. ActivityError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. ActivityName</b>
The activity which was not successful.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JDE-MIB::ciC15oEv4ActivityName</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.15.1.2.1.4.1</li> </ul>
<b>6. Message</b>
Textual description of the error.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.2</li> </ul>

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## ActivitySuccessful

---

The specified activity was successful.

Level : *Info*

Log Message : {ActivityName} executed and outputted response output parameter

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15oActivitySuccessfulEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.15.1.2

SNMP Trap Number : 3

## Variables

The ActivitySuccessful message contains the following variables:

Table 1. ActivitySuccessful Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>  The activity which was successful. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JDE-MIB::ciC15oEv3ActivityName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.15.1.2.1.3.1</li></ul>

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## ClassesMissing

---

JDE is missing classes required to start the activity. Please install the libraries from the WMC.

Level : *Severe*

Log Message : *Missing classes when trying to start activity {ActivityName}. JDE library may need to be installed on the appliance. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15oClassesMissingEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.15.1.2

SNMP Trap Number : 1

## Variables

---

The ClassesMissing message contains the following variables:

Table 1. ClassesMissing Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>  The activity name which failed. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>

- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15oEv1ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.15.1.2.1.1.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## CreateSchemaError

Error occurred while creating request schema for the business function.

Level : Severe

Log Message : *Exception while creating request schema for the business function {FunctionName}, function code {FunctionCode}, module code {ModuleCode}. The exception is {Message}*

System : Orchestration

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15oCreateSchemaErrorEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.15.1.2

SNMP Trap Number : 8

## Variables

The CreateSchemaError message contains the following variables:

Table 1. CreateSchemaError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. FunctionName

The name of function for which error occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15oEv8FunctionName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.15.1.2.1.8.1

#### 6. FunctionCode

The code of function for which error occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15oEv8FunctionCode
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.15.1.2.1.8.2

#### 7. ModuleCode

The code of module for which error occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15oEv8ModuleCode
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.15.1.2.1.8.3

#### 8. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## DataStructureError

Error occurred while creating a schema for the business function name.

Level : Severe

Log Message : Exception while creating a schema for the business function name {FunctionName}, function code {FunctionCode}, module code {ModuleCode}. The exception is {Message}

System : Orchestration

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15oDataStructureErrorEv11

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.15.1.2

SNMP Trap Number : 11

## Variables

---

The DataStructureError message contains the following variables:

Table 1. DataStructureError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. FunctionName</b>  The name of function for which error occurred. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JDE-MIB::ciC15oEv11FunctionName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.15.1.2.1.11.1</li></ul>
<b>6. FunctionCode</b>  The code of function for which error occurred. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JDE-MIB::ciC15oEv11FunctionCode</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.15.1.2.1.11.2</li></ul>
<b>7. ModuleCode</b>

The code of module for which error occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15oEv11ModuleCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.15.1.2.1.11.3

## 8. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## NumberFormatException

---

There was an error due to invalid port number.

Level : *Warning*

Log Message : *Invalid port number : {PortNumber}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15oNumberFormatExceptionEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.15.1.2

SNMP Trap Number : 6

## Variables

---

The NumberFormatError message contains the following variables:

Table 1. NumberFormatError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>



<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>



<b>3. JobID</b>
-----------------

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. PortNumber

The invalid port number which was entered.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15oEv6PortNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.15.1.2.1.6.1

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## ResourceCleanError

---

Error occurred while closing the statement or result set in database.

Level : *Severe*

Log Message : *Exception while closing the statement or result set. The exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15oResourceCleanErrorEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.15.1.2

SNMP Trap Number : 10

---

## Variables

The ResourceCleanError message contains the following variables:

Table 1. ResourceCleanError Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## ResponseSchemaError

---

Error occurred while creating response schema for the business function.

Level : Severe

Log Message : *Exception while creating request schema for the business function {FunctionName}, function code {FunctionCode}, module code {ModuleCode}. The exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15oResponseSchemaErrorEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.15.1.2

SNMP Trap Number : 9

## Variables

---

The ResponseSchemaError message contains the following variables:

Table 1. ResponseSchemaError Message Variables

## 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. FunctionName

The name of function for which error occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15oEv9FunctionName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.15.1.2.1.9.1

## 6. FunctionCode

The code of function for which error occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15oEv9FunctionCode
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.15.1.2.1.9.2

## 7. ModuleCode

The code of module for which error occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15oEv9ModuleCode
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.15.1.2.1.9.3

## 8. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [JD Edwards Operation Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/jde/jde\\_operation\\_responseschemaerror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/jde/jde_operation_responseschemaerror_message.html)

## SetUpInfo

---

JDE activity got warning or error messages while setting up the specified activity.

Level : *Warning*

Log Message : *Warning/error messages while doing setup for {ActivityName}: {Message}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-JDE-MIB::ciC15oSetUpInfoEv2*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.15.1.2*

SNMP Trap Number : 2

## Variables

---

The SetUpInfo message contains the following variables:

Table 1. SetUpInfo Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. ActivityName

The activity name which faced warnings or error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15oEv2ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.15.1.2.1.2.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [JD Edwards Operation Notifications](#)

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# UnSupportedEncoding

---

Error while processing unsupported encoding.

Level : *Severe*

Log Message : *Error while processing unsupported encoding. Exception : {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15oUnSupportedEncodingEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.15.1.2

SNMP Trap Number : 7

## Variables

---

The UnSupportedEncoding message contains the following variables:

Table 1. UnSupportedEncoding Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.1

### **3. JobID**

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### **4. Orchestration**

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### **5. Message**

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [JD Edwards Operation Notifications](#)

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## **JD Edwards Internal Notifications**

---

Provides a comprehensive list of internal notifications sent from the JD Edwards Module.

- [JDEInternalerror](#)  
Error occurred while processing the request.

**Parent topic:** [JD Edwards Module](#)

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## **JDEInternalerror**

---

Error occurred while processing the request.

Level : Severe

Log Message : *Error while processing request. Exception : {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JDE-MIB::ciC15IJDEInternalerrorEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.15.1.3

SNMP Trap Number : 1

## Variables

---

The JDEInternalerror message contains the following variables:

Table 1. JDEInternalerror Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

Parent topic: [JD Edwards Internal Notifications](#)

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# JMS Module

JMS Module. This section contains details for the messages delivered from the JMS Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the JMS Module.

MIB Name : *CASTIRON-COMP-JMS-MIB*

MIB OID : *.1.3.6.1.4.1.13336.2.2.3.8*

The following table provides an alphabetical list of all notifications that can be issued by the JMS Module.

Table 1. Notifications issued by the JMS Module

Notification	Level	System	Description
ConnectionPoolError	Warning	Orchestration	Error occurred while returning connection to the pool. Continuing the activity.
FactoryUnknownError	Severe	Orchestration	Unknown exception while looking up the connection factory
FirstID	Warning	Orchestration	The appliance is in recovery mode and the first message specified is not matching the id specified of delivered message. Messages in the queue is tampered and will impact the delivery of messages
GetConnectRetry	Warning	Orchestration	The JMS operation failed while trying to connect to the server. This will cause a retry.
GetMarshallError	Severe	Orchestration	Error occurred while marshalling the JMS message.
JMSError	Severe	Orchestration	Error occurred while getting message from the provider.
LibraryNotInstalled	Severe	Orchestration	This error may be due to JMS Provider library being not installed on the appliance. Please install the JMS provider library using Web management console.
MakeConnectError	Severe	Orchestration	Error occurred while creating the connection to destination.
NamingException	Severe	Orchestration	Naming exception occurred while getting message from destination.
NoMessage	Info	Orchestration	There is no message to be retrieved from the destination specified.
PollMessageError	Severe	Orchestration	Error occurred while getting a message from queue.
PollMessageRetry	Warning	Orchestration	The JMS operation failed while trying to connect to the server. This will cause a retry.
PoolFactoryError	Severe	Orchestration	Error occurred while looking up for connection factory.
PoolReleaseError	Severe	Orchestration	Error occurred while closing the connection pool.
PooledConnException	Warning	Orchestration	A JMS Connection exception occurred while the connection was in the idle pool. This can occur if the JMS provider terminates the connection ungracefully.
RecoveryInfo	Info	Orchestration	The activity is recovering and its skipping message with specified id as its already delivered.
RecoveryInfo	Info	Orchestration	The JMS connector is in recovery mode.
RestartError	Severe	Orchestration	Error occurred while trying to restart the subscriber on the specified topic.
SendConnectRerty	Warning	Orchestration	The JMS operation failed while trying to connect to the server. This will cause a retry.
SendMarshallError	Severe	Orchestration	Error occurred while unmarshalling the JMS message.
SendMessageError	Severe	Orchestration	Error occurred while sending message.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
SendNamingException	Severe	Orchestration	Naming exception occurred while sending message to destination.
SubscriberConfigError	Severe	Orchestration	Error occurred while configuring the subscriber activity.
SubscriberConnect	Severe	Orchestration	The JMS operation failed while trying to connect to the server.
SubscriberError	Severe	Orchestration	Error occurred while subscribing the message. This message should be re-delivered manually from the Provider.
SubscriberNameError	Severe	Orchestration	Naming exception occurred while configuring the subscriber activity.
SubscriberStartInfo	Info	Orchestration	Subscriber started successfully for the specified topic.
UnsubscribeError	Warning	Orchestration	Error occurred while unsubscribing on the topic.

- [JMS Connection Notifications](#)  
Provides a comprehensive list of connection notifications sent from the JMS Module.
- [JMS Operation Notifications](#)  
Provides a comprehensive list of operation notifications sent from the JMS Module.
- [JMS Internal Notifications](#)  
Provides a comprehensive list of internal notifications sent from the JMS Module.

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## JMS Connection Notifications

---

Provides a comprehensive list of connection notifications sent from the JMS Module.

- [ConnectionPoolError](#)  
Error occurred while returning connection to the pool. Continuing the activity.
- [FactoryUnknownError](#)  
Unknown exception while looking up the connection factory
- [GetConnectRetry](#)  
The JMS operation failed while trying to connect to the server. This will cause a retry.
- [MakeConnectError](#)  
Error occurred while creating the connection to destination.
- [PollMessageRetry](#)  
The JMS operation failed while trying to connect to the server. This will cause a retry.
- [PoolFactoryError](#)  
Error occurred while looking up for connection factory.
- [PoolReleaseError](#)  
Error occurred while closing the connection pool.
- [PooledConnException](#)  
A JMS Connection exception occurred while the connection was in the idle pool. This can occur if the JMS provider terminates the connection ungracefully.
- [RecoveryInfo](#)  
The JMS connector is in recovery mode.
- [RestartError](#)  
Error occurred while trying to restart the subscriber on the specified topic.
- [SendConnectRerty](#)  
The JMS operation failed while trying to connect to the server. This will cause a retry.
- [SubscriberConnect](#)  
The JMS operation failed while trying to connect to the server.

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## ConnectionPoolError

---

Error occurred while returning connection to the pool. Continuing the activity.

Level : *Warning*

Log Message : *Exception while returning connection to pool. The Exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8cConnectionPoolErrorEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.1

SNMP Trap Number : 5

## Variables

---

The ConnectionPoolError message contains the following variables:

Table 1. ConnectionPoolError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [JMS Connection Notifications](#)

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## FactoryUnknownError

---

Unknown exception while looking up the connection factory

Level : *Severe*

Log Message : *Exception while looking up the connection factory {Message}. The exception is unknown error message from Provider. One of the reason for the error is If the provider is ActiveMQ and the binding file name or path is not correct.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8cFactoryUnknownErrorEv11

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.1

SNMP Trap Number : 11

## Variables

---

The FactoryUnknownError message contains the following variables:

Table 1. FactoryUnknownError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID

- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## GetConnectRetry

The JMS operation failed while trying to connect to the server. This will cause a retry.

Level : *Warning*

Log Message : *Connection exception while getting message from the provider. The error code is {ErrorCode} and message is {ErrorMessage}. The job is retrying {RetryAttemptNumber}, out of {TotalRetryAttempts} attempts to connect to JMS provider. The next attempt will be after {IntervalForRetries} seconds.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8cGetConnectRetryEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.1

SNMP Trap Number : 1

## Variables

The GetConnectRetry message contains the following variables:

Table 1. GetConnectRetry Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. ErrorCode

The error code specified in the error message

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv1ErrorCode
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.8.1.1.1.1

### 6. ErrorMessage

The error message specified in the error message

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv1ErrorMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.8.1.1.1.2

### 7. RetryAttemptNumber

The current number of retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv1RetryAttemptNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.8.1.1.1.3

### 8. TotalRetryAttempts

The specified number of attempts to connect to the server before stopping.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv1TotalRetryAttempts
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.8.1.1.1.4

### 9. IntervalForRetries

The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv1IntervalForRetries
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.8.1.1.1.5

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/jms/jms\\_connection\\_getconnectretry\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/jms/jms_connection_getconnectretry_message.html)

## MakeConnectError

---

Error occurred while creating the connection to destination.

Level : *Severe*

Log Message : *Exception while creating the connection to destination. The Exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8cMakeConnectErrorEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.1

SNMP Trap Number : 8

## Variables

---

The MakeConnectError message contains the following variables:

Table 1. MakeConnectError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/jms/jms\\_connection\\_makeconnecterror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/jms/jms_connection_makeconnecterror_message.html)

## PollMessageRetry

The JMS operation failed while trying to connect to the server. This will cause a retry.

Level : *Warning*

Log Message : *Connection exception while polling message. The exception is {Message}. The job is retrying {RetryAttemptNumber} out of {TotalRetryAttempts} attempt to connect to JMS provider. The next attempt will be after {IntervalForRetries} secs.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8cPollMessageRetryEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.1

SNMP Trap Number : 4

## Variables

The PollMessageRetry message contains the following variables:

Table 1. PollMessageRetry Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

## 6. RetryAttemptNumber

The current number of retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv4RetryAttemptNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.8.1.1.1.4.2

## 7. TotalRetryAttempts

The specified number of attempts to connect to the server before stopping.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv4TotalRetryAttempts
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.8.1.1.1.4.3

## 8. IntervalForRetries

The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv4IntervalForRetries
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.8.1.1.1.4.4

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## PoolFactoryError

---

Error occurred while looking up for connection factory.

Level : *Severe*

Log Message : *Exception while looking up the connection factory {FactoryName}. The exception is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8cPoolFactoryErrorEv7

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.8.1.1

## Variables

The PoolFactoryError message contains the following variables:

Table 1. PoolFactoryError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. FactoryName</b>
Name of the provider connection factory.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JMS-MIB::ciC8cEv7FactoryName</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.8.1.1.1.7.1</li> </ul>
<b>6. Message</b>
Textual description of the error.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.2</li> </ul>

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## PoolReleaseError

Error occurred while closing the connection pool.

Level : Severe

Log Message : *Exception while closing the connection pool. The Exception is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8cPoolReleaseErrorEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.1

SNMP Trap Number : 6

## Variables

The PoolReleaseError message contains the following variables:

Table 1. PoolReleaseError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## PooledConnException

---

A JMS Connection exception occurred while the connection was in the idle pool. This can occur if the JMS provider terminates the connection ungracefully.

Level : *Warning*

Log Message : *Exception received on JMS connection while it was in the idle connections pool. The error code is: {ErrorCode}, and the exception is: {ErrorMessage}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8cPooledConnExceptionEv12

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.1

SNMP Trap Number : 12

## Variables

---

The PooledConnException message contains the following variables:

Table 1. PooledConnException Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li></ul>

- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. ErrorCode

The error code specified in the exception

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv12ErrorCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.1.1.12.1

## 6. ErrorMessage

The error message specified in the exception

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv12ErrorMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.1.1.12.2

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## RecoveryInfo

The JMS connector is in recovery mode.

Level : *Info*

Log Message : *The jms connector is in recovery mode.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8cRecoveryInfoEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.1

SNMP Trap Number : 3

## Variables

The RecoveryInfo message contains the following variables:

Table 1. RecoveryInfo Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## RestartError

Error occurred while trying to restart the subscriber on the specified topic.

Level : Severe

Log Message : Failed to start the subscriber for the topic {TopicName}. Will try to start the subscriber after {IntervalForRestart} seconds

System : Orchestration

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8cRestartErrorEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.1

SNMP Trap Number : 10

## Variables

The RestartError message contains the following variables:

Table 1. RestartError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. TopicName

The name of specified topic.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv10TopicName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.1.1.10.1

### 6. IntervalForRestart

The specified time interval for restart.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv10IntervalForRestart
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.1.1.10.2

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## SendConnectRerty

The JMS operation failed while trying to connect to the server. This will cause a retry.

Level : *Warning*

Log Message : *Connection exception while sending message. The error code is {ErrorCode} and exception is {ErrorMessage}. The job is retrying {RetryAttemptNumber} out of {TotalRetryAttempts} attempt to connect to JMS provider. The next attempt will be after {IntervalForRetries} secs.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8cSendConnectRertyEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.1

## Variables

---

The SendConnectRerty message contains the following variables:

Table 1. SendConnectRerty Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. ErrorCode</b>
The error code specified in the error message
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JMS-MIB::ciC8cEv2ErrorCode</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.8.1.1.1.2.1</li> </ul>
<b>6. ErrorMessage</b>
The error message specified in the error message
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JMS-MIB::ciC8cEv2ErrorMessage</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.8.1.1.1.2.2</li> </ul>
<b>7. RetryAttemptNumber</b>
The current number of retries.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JMS-MIB::ciC8cEv2RetryAttemptNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.8.1.1.1.2.3</li> </ul>
<b>8. TotalRetryAttempts</b>

The specified number of attempts to connect to the server before stopping.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv2TotalRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.1.1.2.4

## 9. IntervalForRetries

The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv2IntervalForRetries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.1.1.2.5

**Parent topic:** [JMS Connection Notifications](#)

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## SubscriberConnect

---

The JMS operation failed while trying to connect to the server.

Level : Severe

Log Message : *Connection exception in the subscriber. The exception is {Message}. Going to restart the subscriber after the {IntervalForRestart} secs*

System : Orchestration

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8cSubscriberConnectEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.1

SNMP Trap Number : 9

## Variables

---

The SubscriberConnect message contains the following variables:

Table 1. SubscriberConnect Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>
Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

### 6. IntervalForRestart

The specified time interval for restart.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv9IntervalForRestart
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.8.1.1.1.9.2

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/jms/jms\\_connection\\_subscriberconnect\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/jms/jms_connection_subscriberconnect_message.html)

## JMS Operation Notifications

---

Provides a comprehensive list of operation notifications sent from the JMS Module.

- [FirstID](#)  
The appliance is in recovery mode and the first message specified is not matching the id specified of delivered message.  
Messages in the queue is tampered and will impact the delivery of messages
- [NamingException](#)  
Naming exception occurred while getting message from destination.
- [NoMessage](#)  
There is no message to be retrieved from the destination specified.
- [RecoveryInfo](#)  
The activity is recovering and its skipping message with specified id as its already delivered.
- [SendMessageError](#)  
Error occurred while sending message.
- [SendNamingException](#)  
Naming exception occurred while sending message to destination.
- [SubscriberConfigError](#)  
Error occurred while configuring the subscriber activity.

- [SubscriberError](#)  
Error occurred while subscribing the message. This message should be re-delivered manually from the Provider.
- [SubscriberNameError](#)  
Naming exception occurred while configuring the subscriber activity.
- [SubscriberStartInfo](#)  
Subscriber started successfully for the specified topic.
- [UnsubscribeError](#)  
Error occurred while unsubscribing on the topic.

**Parent topic:** [JMS Module](#)

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## FirstID

---

The appliance is in recovery mode and the first message specified is not matching the id specified of delivered message. Messages in the queue is tampered and will impact the delivery of messages

Level : *Warning*

Log Message : *The appliance is in recovery mode and the first message id {JMSMessageID} is not matching the id {FirstMessageID} of delivered message. Messages in the queue is tampered and will impact the delivery of messages.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8oFirstIDEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.2

SNMP Trap Number : 3

## Variables

---

The FirstID message contains the following variables:

Table 1. FirstID Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap. <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification. <ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. JMSMessageID

JMS message ID specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8oEv3JMSMessageID
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.2.1.3.1

#### 6. FirstMessageID

First message ID specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8oEv3FirstMessageID
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.2.1.3.2

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## NamingException

Naming exception occurred while getting message from destination.

Level : *Severe*

Log Message : *Naming exception while getting message to destination. The exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8oNamingExceptionEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.2

SNMP Trap Number : 1

## Variables

The NamingException message contains the following variables:

Table 1. NamingException Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## NoMessage

There is no message to be retrieved from the destination specified.

Level : *Info*

Log Message : *There is no message to be retrieved from the destination {Destination}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8oNoMessageEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.2

SNMP Trap Number : 2

## Variables

---

The NoMessage message contains the following variables:

Table 1. NoMessage Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Destination</b>  The destination from which message was to be retrieved. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JMS-MIB::ciC8oEv2Destination</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.8.1.2.1.2.1</li></ul>

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## RecoveryInfo

---

The activity is recovering and its skipping message with specified id as its already delivered.

Level : *Info*

Log Message : *The activity is recovering and the message with id: {MessageID} is already delivered. Skipping it*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8oRecoveryInfoEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.2

SNMP Trap Number : 6

## Variables

---

The RecoveryInfo message contains the following variables:

Table 1. RecoveryInfo Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. MessageID</b>  The message ID specified. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JMS-MIB::ciC8oEv6MessageID</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.8.1.2.1.6.1</li></ul>

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## SendMessageError

Error occurred while sending message.

Level : Severe

Log Message : *Exception while sending message. The error code is {ErrorCode} and message is {ErrorMessage}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8oSendMessageErrorEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.2

SNMP Trap Number : 4

## Variables

The SendMessageError message contains the following variables:

Table 1. SendMessageError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ErrorCode</b>  The error code specified in the error message <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JMS-MIB::ciC8oEv4ErrorCode</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.8.1.2.1.4.1</li></ul>
<b>6. ErrorMessage</b>

The error message specified in the error message

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8oEv4ErrorMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.2.1.4.2

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## SendNamingException

---

Naming exception occurred while sending message to destination.

Level : *Severe*

Log Message : *Naming exception while sending message to destination. The exception is {Message} not found*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8oSendNamingExceptionEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.2

SNMP Trap Number : 5

## Variables

---

The SendNamingException message contains the following variables:

Table 1. SendNamingException Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## SubscriberConfigError

---

Error occurred while configuring the subscriber activity.

Level : Severe

Log Message : *Exception while configuring the subscriber activity. The exception is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8oSubscriberConfigErrorEv8

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.8.1.2

SNMP Trap Number : 8

## Variables

---

The SubscriberConfigError message contains the following variables:

Table 1. SubscriberConfigError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [JMS Operation Notifications](#)

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## SubscriberError

---

Error occurred while subscribing the message. This message should be re-delivered manually from the Provider.

Level : Severe

Log Message : *Exception in subscribing the message. The Exception is: {Message} for message id: {MessageID}, This message should be re-delivered manually from the Provider.*

System : Orchestration

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8oSubscriberErrorEv7

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.8.1.2

SNMP Trap Number : 7

## Variables

---

The SubscriberError message contains the following variables:

Table 1. SubscriberError Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

## 6. MessageID

The message ID specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8oEv7MessageID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.8.1.2.1.7.2

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## SubscriberNameError

Naming exception occurred while configuring the subscriber activity.

Level : Severe

Log Message : *Naming exception while configuring the subscriber activity. The exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8oSubscriberNameErrorEv9

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.8.1.2

## Variables

---

The SubscriberNameError message contains the following variables:

Table 1. SubscriberNameError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. Message</b>
Textual description of the error.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li> </ul>

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## SubscriberStartInfo

---

Subscriber started successfully for the specified topic.

Level : *Info*

Log Message : *Subscriber started successfully for the topic {TopicName}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-JMS-MIB::ciC8oSubscriberStartInfoEv11*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.8.1.2*

SNMP Trap Number : *11*

## Variables

---

The SubscriberStartInfo message contains the following variables:

Table 1. SubscriberStartInfo Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. TopicName</b>  The name of specified topic.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JMS-MIB::ciC8oEv11TopicName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.8.1.2.1.11.1</li></ul>

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## UnsubscribeError

Error occurred while unsubscribing on the topic.

Level : *Warning*

Log Message : *Exception while unsubscribing on the topic {Topic}. The error code is {ErrorCode} and message is {Message}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-JMS-MIB::ciC8oUnsubscribeErrorEv10*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.8.1.2*

SNMP Trap Number : *10*

## Variables

The UnsubscribeError message contains the following variables:

Table 1. UnsubscribeError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Topic</b>  Name of the topic destination being unsubscribed. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JMS-MIB::ciC8oEv10Topic</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.8.1.2.1.10.1</li></ul>

## 6. ErrorCode

The error code specified in the error message

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8oEv10ErrorCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.2.1.10.2

## 7. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## JMS Internal Notifications

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Provides a comprehensive list of internal notifications sent from the JMS Module.

- [GetMarshallError](#)  
Error occurred while marshalling the JMS message.
- [JMSError](#)  
Error occurred while getting message from the provider.
- [LibraryNotInstalled](#)  
This error may be due to JMS Provider library being not installed on the appliance. Please install the JMS provider library using Web management console.
- [PollMessageError](#)  
Error occurred while getting a message from queue.
- [SendMarshallError](#)  
Error occurred while unmarshalling the JMS message.

**Parent topic:** [JMS Module](#)

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## GetMarshallError

---

Error occurred while marshalling the JMS message.

Level : *Severe*

Log Message : *Exception while marshalling the jms message. The exception is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8iGetMarshallErrorEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.3

SNMP Trap Number : 1

## Variables

---

The GetMarshallError message contains the following variables:

Table 1. GetMarshallError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

Parent topic: [JMS Internal Notifications](#)

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## JMSError

Error occurred while getting message from the provider.

Level : Severe

Log Message : *Exception while getting message from the provider. The error code is {ErrorCode} and message is {ErrorMessage}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8iJMSErrorEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.3

SNMP Trap Number : 2

## Variables

The JMSError message contains the following variables:

Table 1. JMSError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ErrorCode</b>  The error code specified in the error message <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JMS-MIB::ciC8iEv2ErrorCode</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.8.1.3.1.2.1</li></ul>
<b>6. ErrorMessage</b>

The error message specified in the error message

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8iEv2ErrorMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.3.1.2.2

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## LibraryNotInstalled

---

This error may be due to JMS Provider library being not installed on the appliance. Please install the JMS provider library using Web management console.

Level : *Severe*

Log Message : *This error may be due to JMS Provider library being not installed on the appliance. Please install the JMS provider library using Web management console. The error is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8iLibraryNotInstalledEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.3

SNMP Trap Number : 5

## Variables

---

The LibraryNotInstalled message contains the following variables:

Table 1. LibraryNotInstalled Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>



<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>



<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## PollMessageError

---

Error occurred while getting a message from queue.

Level : *Severe*

Log Message : *Exception while getting the message from the queue. The Exception is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8iPollMessageErrorEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.3

SNMP Trap Number : 4

## Variables

---

The PollMessageError message contains the following variables:

Table 1. PollMessageError Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [JMS Internal Notifications](#)

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## SendMarshallError

---

Error occurred while unmarshalling the JMS message.

Level : Severe

Log Message : *Exception while unmarshalling the jms message. The exception is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JMS-MIB::ciC8iSendMarshallErrorEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.8.1.3

SNMP Trap Number : 3

## Variables

---

The SendMarshallError message contains the following variables:

Table 1. SendMarshallError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [JMS Internal Notifications](#)

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## JSON Module

---

The JSON Module provides activities for generating and parsing JSON content. This section contains details for the messages delivered from the JSON Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the JSON Module.

MIB Name : CASTIRON-COMP-JSON-MIB

MIB OID : 1.3.6.1.4.1.13336.2.2.3.21

The following table provides an alphabetical list of all notifications that can be issued by the JSON Module.

Table 1. Notifications issued by the JSON Module

Notification	Level	System	Description
<a href="#">JSONParseError</a>	Severe	Orchestration	There was an error while parsing the JSON.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
<a href="#">JSONSerializeError</a>	Severe	Orchestration	There was an error while serializing the JSON.
<a href="#">TransformError</a>	Severe	Orchestration	There was an error while transforming the JSON.

- [JSON Operation Notifications](#)

Provides a comprehensive list of operation notifications sent from the JSON Module.

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## JSON Operation Notifications

Provides a comprehensive list of operation notifications sent from the JSON Module.

- [JSONParseError](#)  
There was an error while parsing the JSON.
- [JSONSerializeError](#)  
There was an error while serializing the JSON.
- [TransformError](#)  
There was an error while transforming the JSON.

**Parent topic:** [JSON Module](#)

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## JSONParseError

There was an error while parsing the JSON.

Level : *Severe*

Log Message : *Failed to parse JSON, error was: {ErrorMessage}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-JSON-MIB::ciC21oJSONParseErrorEv1*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.21.1.2*

SNMP Trap Number : *1*

## Variables

The JSONParseError message contains the following variables:

Table 1. JSONParseError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. ErrorMessage</b>
The error message returned while parsing the JSON.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JSON-MIB::ciC21oEv1ErrorMessage</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.21.1.2.1.1.1</li> </ul>

**Parent topic:** [JSON Operation Notifications](#)

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## JSONSerializeError

---

There was an error while serializing the JSON.

Level : *Severe*

Log Message : *Failed to serialize JSON, error was: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-JSON-MIB::ciC21oJSONSerializeErrorEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.21.1.2

SNMP Trap Number : 3

## Variables

---

The JSONSerializeError message contains the following variables:

Table 1. JSONSerializeError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

**Parent topic:** [JSON Operation Notifications](#)

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## TransformError

---

There was an error while transforming the JSON.

Level : *Severe*

Log Message : *Failed to transform JSON, error was: {Message}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-JSON-MIB::ciC21oTransformErrorEv4*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.21.1.2*

SNMP Trap Number : *4*

## Variables

The TransformError message contains the following variables:

Table 1. TransformError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

Parent topic: [JSON Operation Notifications](#)

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## Log Module

---

The Log activity allows users to log messages in the orchestration. This section contains details for the messages delivered from the Log Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the Log Module.

MIB Name : *CASTIRON-COMP-LOGACTIVITY-MIB*

MIB OID : .1.3.6.1.4.1.13336.2.2.3.25

The following table provides an alphabetical list of all notifications that can be issued by the Log Module.

Table 1. Notifications issued by the Log Module

Notification	Level	System	Description
<a href="#">FailLogMessage</a>	Severe	Orchestrator	The Log activity failed.

- [Log Operation Notifications](#)

Provides a comprehensive list of operation notifications sent from the Log Module.

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## Log Operation Notifications

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Provides a comprehensive list of operation notifications sent from the Log Module.

- [FailLogMessage](#)  
The Log activity failed.

**Parent topic:** [Log Module](#)

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## [FailLogMessage](#)

---

The Log activity failed.

Level : *Severe*

Log Message : *Failed to log message, error was {ErrorMsg}.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-LOGACTIVITY-MIB::ciC25oFailLogMessageEv1*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.25.1.2*

SNMP Trap Number : *1*

## Variables

The FailLogMessage message contains the following variables:

Table 1. FailLogMessage Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ErrorMsg</b>  The log activity failed due to this error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-LOGACTIVITY-MIB::ciC25oEv1ErrorMsg</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.25.1.2.1.1.1</li></ul>

Parent topic: [Log Operation Notifications](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/logactivity/logactivity\\_operation\\_faillogmessage\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/logactivity/logactivity_operation_faillogmessage_message.html)

## MIME Module

The MIME Module provides activities for creating and parsing Multipurpose Internet Mail Extensions. This section contains details for the messages delivered from the MIME Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the MIME Module.

MIB Name : CASTIRON-COMP-MIME-MIB

MIB OID : .1.3.6.1.4.1.13336.2.2.3.10

The following table provides an alphabetical list of all notifications that can be issued by the MIME Module.

Table 1. Notifications issued by the MIME Module

Notification	Level	System	Description
AttachmentNumber	Info	Orchestration	Activity is processing the specified attachment number.
AttachmentsFound	Info	Orchestration	The activity found specified number of attachments.
AutoGeneratedBody	Info	Orchestration	No boundary value was specified for multiple parts attachment. Using auto-generated boundary.
BoundaryAbsent	Info	Orchestration	Boundary attribute not set in input parameter 'mimeheader'. Input body being set as entityBody in first entity of 'parts' output parameter.
BoundaryInfo	Info	Orchestration	Boundary of mime attachment is as specified.
BoundaryMoreThan70	Warning	Orchestration	Boundary delimiters longer than 70 characters. Ignoring the specified boundary value. Using auto-generated boundary.
BoundarySpecified	Info	Orchestration	Activity found boundary in mime message.
DefaultContentType	Info	Orchestration	Activity did not find any content type specified. Setting content type to text/plain.
EmptyParts	Severe	Orchestration	The input parameter - parts - is empty and there is no data to serialize.
FoundBoundary	Info	Orchestration	Activity found boundary parameter in the mime message.
HeaderAbsent	Severe	Orchestration	Empty input parameter 'mimeheader'. was found. Activity cannot parse data.
InputBodyNull	Severe	Orchestration	Input parameter body from container is NULL. This is due to internal exception.
MainAndSubType	Severe	Orchestration	The main and sub type found in content type.
MainType	Info	Orchestration	Main type specified in the serialize activity.
MimeHeaderMapped	Info	Orchestration	Optional input parameter 'mimeheader' is mapped.
MimeHeaderNotMapped	Info	Orchestration	Optional input parameter 'mimeheader' was not mapped in the activity.
NoAttachments	Severe	Orchestration	Activity did not find any attachments to serialize.
NoBoundaryFound	Warning	Orchestration	Boundary was specified in header but no boundary found in the body. Returning single body.
NoPartBody	Info	Orchestration	This part does not have any body. Setting blank body.
NumberOfParts	Info	Orchestration	The number of parts found in the mime message.
ParseActivityDone	Info	Orchestration	The activity has outputted parts output parameter.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
ParseException	Severe	Orchestration	Error occurred while parsing the data.
SerialActivityDone	Info	Orchestration	The activity is done outputting mimeheader and body output parameters.
SerializeException	Severe	Orchestration	Error occurred while serializing the data.
SubType	Info	Orchestration	Sub Type found in content type of the message.
TransferEncChanged	Warning	Orchestration	The attachment body has lines greater than 998 characters in length. Changing the Content-Transfer-Encoding to binary.
TransferEncLimit	Severe	Orchestration	Entities of type specified cannot have any other Content-Transfer-Encoding apart from 7bit.
TransferEncMissing	Warning	Orchestration	Content-Transfer-Encoding value is missing for specified attachment number . Guessing based on Content-Type and charset values.
TransferEncodingException	Severe	Orchestration	Content-Transfer-Encoding specified in Composite media type cannot be any other apart from 7bit, 8bit or binary.
TransferEncodingValue	Info	Orchestration	Activity found Content-Transfer-Encoding.

- [MIME Operation Notifications](#)  
Provides a comprehensive list of operation notifications sent from the MIME Module.
- [MIME Internal Notifications](#)  
Provides a comprehensive list of internal notifications sent from the MIME Module.

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## MIME Operation Notifications

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Provides a comprehensive list of operation notifications sent from the MIME Module.

- [AttachmentNumber](#)  
Activity is processing the specified attachment number.
- [AttachmentsFound](#)  
The activity found specified number of attachments.
- [AutoGeneratedBody](#)  
No boundary value was specified for multiple parts attachment. Using auto-generated boundary.
- [BoundaryAbsent](#)  
Boundary attribute not set in input parameter 'mimeheader'. Input body being set as entityBody in first entity of 'parts' output parameter.
- [BoundaryInfo](#)  
Boundary of mime attachment is as specified.
- [BoundaryMoreThan70](#)  
Boundary delimiters longer than 70 characters. Ignoring the specified boundary value. Using auto-generated boundary.
- [BoundarySpecified](#)  
Activity found boundary in mime message.
- [DefaultContentType](#)  
Activity did not find any content type specified. Setting content type to text/plain.
- [EmptyParts](#)  
The input parameter - parts - is empty and there is no data to serialize.
- [FoundBoundary](#)  
Activity found boundary parameter in the mime message.

- **HeaderAbsent**  
Empty input parameter 'mimeheader'. was found. Activity cannot parse data.
- **MainAndSubType**  
The main and sub type found in content type.
- **MainType**  
Main type specified in the serialize activity.
- **MimeHeaderMapped**  
Optional input parameter 'mimeheader' is mapped.
- **MimeHeaderNotMapped**  
Optional input parameter 'mimeheader' was not mapped in the activity.
- **NoAttachments**  
Activity did not find any attachments to serialize.
- **NoBoundaryFound**  
Boundary was specified in header but no boundary found in the body. Returning single body.
- **NoPartBody**  
This part does not have any body. Setting blank body.
- **NumberOfParts**  
The number of parts found in the mime message.
- **ParseActivityDone**  
The activity has outputted parts output parameter.
- **SerialActivityDone**  
The activity is done outputting mimeheader and body output parameters.
- **SerializeException**  
Error occurred while serializing the data.
- **SubType**  
Sub Type found in content type of the message.
- **TransferEncChanged**  
The attachment body has lines greater than 998 characters in length. Changing the Content-Transfer-Encoding to binary.
- **TransferEncLimit**  
Entities of type specified cannot have any other Content-Transfer-Encoding apart from 7bit.
- **TransferEncMissing**  
Content-Transfer-Encoding value is missing for specified attachment number . Guessing based on Content-Type and charset values.
- **TransferEncodingException**  
Content-Transfer-Encoding specified in Composite media type cannot be any other apart from 7bit, 8bit or binary.
- **TransferEncodingValue**  
Activity found Content-Transfer-Encoding.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/mime/mime\\_operation\\_notifications\\_list.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/mime/mime_operation_notifications_list.html)

## AttachmentNumber

Activity is processing the specified attachment number.

Level : *Info*

Log Message : *Processing attachment number {AttachmentNumber}.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-MIME-MIB::ciC10oAttachmentNumberEv3*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.10.1.2*

## Variables

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The AttachmentNumber message contains the following variables:

Table 1. AttachmentNumber Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. AttachmentNumber</b>
The attachment number activity is currently processing.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MIME-MIB::ciC10oEv3AttachmentNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.10.1.2.1.3.1</li> </ul>

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/mime/mime\\_operation\\_attachmentnumber\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/mime/mime_operation_attachmentnumber_message.html)

## AttachmentsFound

---

The activity found specified number of attachments.

Level : *Info*

Log Message : *The number of attachments found is {NumberOfAttach}.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-MIME-MIB::ciC10oAttachmentsFoundEv10*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.10.1.2*

SNMP Trap Number : *10*

## Variables

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The AttachmentsFound message contains the following variables:

Table 1. AttachmentsFound Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. NumberOfAttach</b>  The number of attachments found by the activity. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MIME-MIB::ciC10oEv10NumberOfAttach</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.10.1.2.1.10.1</li></ul>

Parent topic: [MIME Operation Notifications](#)

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## AutoGeneratedBody

---

No boundary value was specified for multiple parts attachment. Using auto-generated boundary.

Level : *Info*

Log Message : *No boundary value specified for multiple parts attachment. Using auto-generated boundary: {Boundary}.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-MIME-MIB::ciC10oAutoGeneratedBodyEv19*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.10.1.2*

SNMP Trap Number : *19*

## Variables

---

The AutoGeneratedBody message contains the following variables:

Table 1. AutoGeneratedBody Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Boundary</b>  The auto generated body which is used. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MIME-MIB::ciC10oEv19Boundary</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.10.1.2.1.19.1</li></ul>

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## BoundaryAbsent

---

Boundary attribute not set in input parameter 'mimeheader'. Input body being set as entityBody in first entity of 'parts' output parameter.

Level : *Info*

Log Message : *Boundary attribute not set in input parameter 'mimeheader'. Input body being set as entityBody in first entity of 'parts' output parameter.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oBoundaryAbsentEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 8

## Variables

---

The BoundaryAbsent message contains the following variables:

Table 1. BoundaryAbsent Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li></ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## BoundaryInfo

---

Boundary of mime attachment is as specified.

Level : *Info*

Log Message : *Boundary is: |"{{Boundary}}|".*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oBoundaryInfoEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 1

## Variables

---

The BoundaryInfo message contains the following variables:

Table 1. BoundaryInfo Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Boundary

The boundary in the mime attachment.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MIME-MIB::ciC10oEv1Boundary
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.10.1.2.1.1.1

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## BoundaryMoreThan70

Boundary delimiters longer than 70 characters. Ignoring the specified boundary value. Using auto-generated boundary.

Level : *Warning*

Log Message : *Boundary delimiters longer than 70 characters. Ignoring the specified boundary value. Using auto-generated boundary.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oBoundaryMoreThan70Ev25

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 25

## Variables

The BoundaryMoreThan70 message contains the following variables:

Table 1. BoundaryMoreThan70 Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## BoundarySpecified

Activity found boundary in mime message.

Level : *Info*

Log Message : Got boundary: |"**{Boundary}**|".

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oBoundarySpecifiedEv23

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 23

## Variables

The BoundarySpecified message contains the following variables:

Table 1. BoundarySpecified Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Boundary

Boundary found in the message.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MIME-MIB::ciC10oEv23Boundary
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.10.1.2.1.23.1

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## DefaultContentType

Activity did not find any content type specified. Setting content type to text/plain.

Level : *Info*

Log Message : *Content-type not found. Taking default Content-Type as text/plain.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oDefaultContentTypeEv12

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 12

## Variables

The DefaultContentType message contains the following variables:

Table 1. DefaultContentType Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## EmptyParts

The input parameter - parts - is empty and there is no data to serialize.

Level : *Severe*

Log Message : *Empty input parameter 'parts'. No data to serialize.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oEmptyPartsEv14

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 14

## Variables

The EmptyParts message contains the following variables:

Table 1. EmptyParts Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## FoundBoundary

Activity found boundary parameter in the mime message.

Level : *Info*

Log Message : *Found boundary parameter: |"{"Boundary}|".*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oFoundBoundaryEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 5

## Variables

The FoundBoundary message contains the following variables:

Table 1. FoundBoundary Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Boundary

The boundary parameter found in the mime message.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MIME-MIB::ciC10oEv5Boundary
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.10.1.2.1.5.1

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## HeaderAbsent

Empty input parameter 'mimeheader'. was found. Activity cannot parse data.

Level : Severe

Log Message : *Empty input parameter 'mimeheader'. Cannot parse data.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oHeaderAbsentEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 9

## Variables

The HeaderAbsent message contains the following variables:

Table 1. HeaderAbsent Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## MainAndSubType

The main and sub type found in content type.

Level : Severe

Log Message : *Mime-header type: {MainType}; sub-type: {SubType}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oMainAndSubTypeEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 7

## Variables

The MainAndSubType message contains the following variables:

Table 1. MainAndSubType Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. MainType

The main type found in the content type of message.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MIME-MIB::ciC10oEv7MainType
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.10.1.2.1.7.1

## 6. SubType

The sub type found in the content type of message.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MIME-MIB::ciC10oEv7SubType
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.10.1.2.1.7.2

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## MainType

Main type specified in the serialize activity.

Level : *Info*

Log Message : Got main-type: {MainType}.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oMainTypeEv22

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 22

## Variables

---

The MainType message contains the following variables:

Table 1. MainType Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. MainType</b>  Main type specified in the serialize activity. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MIME-MIB::ciC10oEv22MainType</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.10.1.2.1.22.1</li></ul>

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# MimeHeaderMapped

---

Optional input parameter 'mimeheader' is mapped.

Level : *Info*

Log Message : *Optional input parameter 'mimeheader' is mapped.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oMimeHeaderMappedEv21

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 21

## Variables

---

The MimeHeaderMapped message contains the following variables:

Table 1. MimeHeaderMapped Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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# MimeHeaderNotMapped

---

Optional input parameter 'mimeheader' was not mapped in the activity.

Level : *Info*

Log Message : *Optional input parameter 'mimeheader' not mapped.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oMimeHeaderNotMappedEv17

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 17

## Variables

---

The MimeHeaderNotMapped message contains the following variables:

Table 1. MimeHeaderNotMapped Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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# NoAttachments

---

Activity did not find any attachments to serialize.

Level : *Severe*

Log Message : *No attachments found. Nothing to serialize.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oNoAttachmentsEv13

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 13

## Variables

---

The NoAttachments message contains the following variables:

Table 1. NoAttachments Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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# NoBoundaryFound

---

Boundary was specified in header but no boundary found in the body. Returning single body.

Level : *Warning*

Log Message : *Boundary specified in header but no boundary found in the body. Returning single body.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oNoBoundaryFoundEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 2

## Variables

---

The NoBoundaryFound message contains the following variables:

Table 1. NoBoundaryFound Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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# NoPartBody

---

This part does not have any body. Setting blank body.

Level : *Info*

Log Message : *This part does not have any body. Setting blank body.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oNoPartBodyEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 4

## Variables

---

The NoPartBody message contains the following variables:

Table 1. NoPartBody Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## NumberOfParts

---

The number of parts found in the mime message.

Level : *Info*

Log Message : *Number of parts {NumberOfParts}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oNumberOfPartsEv18

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 18

## Variables

---

The NumberOfParts message contains the following variables:

Table 1. NumberOfParts Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. NumberOfParts</b>  The number of parts found. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MIME-MIB::ciC10oEv18NumberOfParts</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.10.1.2.1.18.1</li></ul>

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## ParseActivityDone

The activity has outputted parts output parameter.

Level : *Info*

Log Message : *Outputted 'parts' output parameter.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oParseActivityDoneEv11

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 11

## Variables

The ParseActivityDone message contains the following variables:

Table 1. ParseActivityDone Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/mime/mime\\_operation\\_parseactivitydone\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/mime/mime_operation_parseactivitydone_message.html)

## SerialActivityDone

The activity is done outputting mimeheader and body output parameters.

Level : *Info*

Log Message : *Outputted 'mimeheader' and 'body' output parameters.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oSerialActivityDoneEv27

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 27

## Variables

The SerialActivityDone message contains the following variables:

Table 1. SerialActivityDone Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## SerializeException

---

Error occurred while serializing the data.

Level : *Severe*

Log Message : *Error while serializing data. Error is: {Message}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oSerializeExceptionEv20

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 20

## Variables

---

The SerializeException message contains the following variables:

Table 1. SerializeException Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## SubType

Sub Type found in content type of the message.

Level : *Info*

Log Message : *Sub-type: {SubType}*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oSubTypeEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 6

## Variables

The SubType message contains the following variables:

Table 1. SubType Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. SubType

The sub type found in the content type of message.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MIME-MIB::ciC10oEv6SubType
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.10.1.2.1.6.1

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## TranferEncChanged

The attachment body has lines greater than 998 characters in length. Changing the Content-Transfer-Encoding to binary.

Level : *Warning*

Log Message : *Content-Transfer-Encoding value for attachment {AttachmentNumber} is {EncodingValue} while the attachment body has lines greater than 998 characters in length. Changing the Content-Transfer-Encoding to binary.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oTranferEncChangedEv26

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 26

## Variables

The TranferEncChanged message contains the following variables:

Table 1. TranferEncChanged Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. AttachmentNumber

The attachment number.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MIME-MIB::ciC10oEv26AttachmentNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.10.1.2.1.26.1

#### 6. EncodingValue

The content transfer encoding value.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MIME-MIB::ciC10oEv26EncodingValue
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.10.1.2.1.26.2

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## TransferEncLimit

---

Entities of type specified cannot have any other Content-Transfer-Encoding apart from 7bit.

Level : Severe

Log Message : *Entities of type {MainType}/{SubType} cannot have any other Content-Transfer-Encoding apart from 7bit.*

System : Orchestration

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oTransferEncLimitEv16

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 16

## Variables

---

The TransferEncLimit message contains the following variables:

Table 1. TransferEncLimit Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. MainType

The main type found in the content type of message.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MIME-MIB::ciC10oEv16MainType
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.10.1.2.1.16.1

## 6. SubType

The sub type found in the content type of message.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MIME-MIB::ciC10oEv16SubType
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.10.1.2.1.16.2

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## TransferEncMissing

---

Content-Transfer-Encoding value is missing for specified attachment number . Guessing based on Content-Type and charset values.

Level : *Warning*

Log Message : Content-Transfer-Encoding value missing for attachment number {AttachmentNumber}. Guessing based on Content-Type and charset values.

System : Orchestration

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oTransferEncMissingEv28

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 28

## Variables

---

The TransferEncMissing message contains the following variables:

Table 1. TransferEncMissing Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. AttachmentNumber</b>  The attachment number for which content transfer encoding is missing. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MIME-MIB::ciC10oEv28AttachmentNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.10.1.2.1.28.1</li></ul>

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## TransferEncodingException

Content-Transfer-Encoding specified in Composite media type cannot be any other apart from 7bit, 8bit or binary.

Level : Severe

Log Message : *Composite media type {MediaType} cannot have any other Content-Transfer-Encoding apart from 7bit, 8bit or binary.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oTransferEncodingErrorEv15

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 15

## Variables

The TransferEncodingException message contains the following variables:

Table 1. TransferEncodingException Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. MediaType</b>  Composite Media type specified in the activity. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MIME-MIB::ciC10oEv15MediaType</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.10.1.2.1.15.1</li></ul>

Parent topic: [MIME Operation Notifications](#)

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## TransferEncodingValue

---

Activity found Content-Transfer-Encoding.

Level : *Info*

Log Message : Got Content-Transfer-Encoding: {ContentTransfer}.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10oTransferEncodingValueEv24

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.2

SNMP Trap Number : 24

## Variables

---

The TransferEncodingValue message contains the following variables:

Table 1. TransferEncodingValue Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. ContentTransfer

Content Transfer Encoding found in the message.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MIME-MIB::ciC10oEv24ContentTransfer
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.10.1.2.1.24.1

**Parent topic:** [MIME Operation Notifications](#)

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## MIME Internal Notifications

---

Provides a comprehensive list of internal notifications sent from the MIME Module.

- [InputBodyNull](#)  
Input parameter body from container is NULL. This is due to internal exception.
- [ParseException](#)  
Error occurred while parsing the data.

**Parent topic:** [MIME Module](#)

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## InputBodyNull

---

Input parameter body from container is NULL. This is due to internal exception.

Level : *Severe*

Log Message : *Input parameter 'body' from container is NULL.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10iInputBodyNullEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.3

SNMP Trap Number : 1

## Variables

---

The InputBodyNull message contains the following variables:

Table 1. InputBodyNull Message Variables

## 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type :** String
- **SNMP Object Name :** CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID :** 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type :** Integer
- **SNMP Object Name :** CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID :** 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type :** String
- **SNMP Object Name :** CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID :** 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type :** OID
- **SNMP Object Name :** CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID :** 1.3.6.1.4.1.13336.2.2.1.2.3

**Parent topic:** [MIME Internal Notifications](#)

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## ParseException

---

Error occurred while parsing the data.

Level : *Severe*

Log Message : *Error while parsing data. Error is: {Message}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MIME-MIB::ciC10iParseExceptionEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.10.1.3

SNMP Trap Number : 2

## Variables

---

The ParseException message contains the following variables:

---

Table 1. ParseException Message Variables

---

## 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [MIME Internal Notifications](#)

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## Maestro Module

---

The Maestro Module represents the internal operation of the Cast Iron runtime. This section contains details for the messages delivered from the Maestro Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the Maestro Module.

MIB Name : *CASTIRON-COMP-MAESTRO-MIB*

MIB OID : 1.3.6.1.4.1.13336.2.2.3.20

The following table provides an alphabetical list of all notifications that can be issued by the Maestro Module.

Table 1. Notifications issued by the Maestro Module

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
AbandonedJobs	Warning	Orchestration	A timeout occurred while waiting for jobs to stop and some jobs were abandoned.
ActInvalidLicense (Deprecated)	Severe	Orchestration	<b>Deprecated.</b>
ActivityFailedError	Severe	Orchestration	Encountered fault of specified type, please see rest of the log for more information.
AlreadyDeployed	Severe	Orchestration	The specified orchestration is already deployed.
CallContext	Severe	Orchestration	Maestro is not able to create call context.
CallContextDestroy	Info	Orchestration	Call context created but task never started.
CatchExpression	Severe	Orchestration	Unable to parse the catch expression.
CleanUpFailed	Warning	Orchestration	Failed to clean up the activity.
CloseInputStream	Warning	Orchestration	Could not close input stream.
CloseOutputStream	Warning	Orchestration	Could not close output stream.
CloseReader	Warning	Orchestration	Could not close reader.
CloseWriter	Warning	Orchestration	Could not close writer.
DeactivateFailed	Severe	Orchestration	Maestro failed to deactivate the specified activity.
DebugFailed	Severe	Orchestration	Debugger operation failed.
DeleteObject	Warning	Orchestration	Could not clean up object with ID.
DestroyFailed	Severe	Orchestration	Maestro failed to destroy the specified activity.
EnqueueFailed	Severe	Orchestration	Unable to enqueue the orchestration.
EntryPath	Severe	Orchestration	Could not find an entry point for the specified activity in the compiled orchestration.
ErrorMap	Severe	Orchestration	Error in map activity.
ErrorTwoPhase	Severe	Orchestration	Activity could not be converted to Two phase activity.
ExecuteError	Severe	Orchestration	Unable to execute the orchestration.
FaultInfo	Severe	Orchestration	Could not initialize FaultInfo.
ForEach	Severe	Orchestration	Error occurred in for each activity.
IOError	Warning	Orchestration	Internal error occurred because of Input/Output error.
InitializeJobInfo	Severe	Orchestration	Could not initialize job info.
InputMap	Severe	Orchestration	No input maps are there for required input parameter.
InputMapXPath	Severe	Orchestration	Could not perform input map expression.
InputMapXSLT	Severe	Orchestration	Could not perform input map XSLT.
InvokeError	Severe	Orchestration	Error occurred in module.
KeyLog	Info	Orchestration	Logged key with specified name and value.
LargeInputParam	Warning	Orchestration	Specified input parameter is over the limit and is too large to log.
LargeNonpersistentVar	Severe	Orchestration	Specified variable is too large for a non-persistent orchestration.
LargeOutputParam	Warning	Orchestration	Specified output parameter is over the limit and is too large to log.
LargeTotalVarSize	Severe	Orchestration	This job cannot be run during low-memory conditions.
LargeVariable	Warning	Orchestration	Specified variable is over the limit and is too large to log.
LicenseExpireImminent (Deprecated)	Severe	Orchestration	<b>Deprecated.</b>

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
<a href="#">LicenseExpireSoon (Deprecated)</a>	Warning	Orchestration	<b>Deprecated.</b>
<a href="#">LicenseExpired (Deprecated)</a>	Severe	Orchestration	<b>Deprecated.</b>
<a href="#">LicenseInvalid (Deprecated)</a>	Severe	Orchestration	<b>Deprecated.</b>
<a href="#">LoaderCancel</a>	Severe	Orchestration	Cancel of job with specified ID of specified orchestration.
<a href="#">LoaderDelete</a>	Severe	Orchestration	Delete of specified orchestration failed.
<a href="#">LoaderDeploy</a>	Severe	Orchestration	Deployment of specified orchestration failed.
<a href="#">LoaderPublish</a>	Severe	Orchestration	Publish of specified configuration failed.
<a href="#">LoaderStart</a>	Severe	Orchestration	Start of the specified orchestration failed.
<a href="#">LoaderStop</a>	Severe	Orchestration	Stop of the specified orchestration failed.
<a href="#">LoaderSuspend</a>	Severe	Orchestration	Suspend of the specified orchestration failed.
<a href="#">LoaderunDeploy</a>	Severe	Orchestration	Undeploy of specified orchestration failed.
<a href="#">MBeanRegister</a>	Severe	Orchestration	Could not register specified object with MBean server.
<a href="#">MBeanUnregister</a>	Severe	Orchestration	Could not unregister specified object with MBean server.
<a href="#">MaxSeqNum</a>	Warning	Orchestration	Exceeded maximum number of activity events for a job.
<a href="#">ModuleConfig</a>	Severe	Orchestration	Could not read module configuration.
<a href="#">MonitorQuery</a>	Severe	Orchestration	Could not query for monitor data.
<a href="#">MonitorVariable</a>	Warning	Orchestration	Could not log monitor variable.
<a href="#">MonitorVariables</a>	Warning	Orchestration	Could not log monitor variables.
<a href="#">MontiorEvents</a>	Severe	Orchestration	Could not log monitor events.
<a href="#">MultipleActFactory</a>	Severe	Orchestration	Activity Factory with specified name and version has multiple registrations, and hence not loading it.
<a href="#">NoActivityFactory</a>	Severe	Orchestration	Activity Factory with specified name and version not registered.
<a href="#">NotDeployed</a>	Severe	Orchestration	Orchestration not deployed.
<a href="#">NotDocParameter</a>	Severe	Orchestration	Specified parameter is not an XML document.
<a href="#">NotDocVariable</a>	Severe	Orchestration	Specified variable is not an XML document.
<a href="#">NotStopped</a>	Severe	Orchestration	Could not undeploy as the orchestration is not stopped.
<a href="#">NotSuspend</a>	Severe	Orchestration	Could not suspend as the orchestration is not running.
<a href="#">NullParam</a>	Severe	Orchestration	Specified parameter is null.
<a href="#">NullVariable</a>	Severe	Orchestration	Specified variable is null.
<a href="#">OSGISyntaxError</a>	Severe	Orchestration	Invalid OSGI query syntax provided.
<a href="#">OrchCompileError</a>	Severe	Orchestration	Unable to compile the specified orchestration.
<a href="#">OutputMap</a>	Severe	Orchestration	Could not perform output map.
<a href="#">OutputMapXPath</a>	Severe	Orchestration	Could not perform output map expression.
<a href="#">OutputMapXSLT</a>	Severe	Orchestration	Could not perform output map transform.
<a href="#">ParamIndex</a>	Warning	Orchestration	Parameter at specified index is already set.
<a href="#">ProgramDestroy</a>	Severe	Orchestration	Program in non terminal state being destroyed.
<a href="#">ProgramStart</a>	Severe	Orchestration	Cannot start an orchestration that is in transient state.
<a href="#">SocketNoReply</a>	Warning	Orchestration	Could not receive socket reply.
<a href="#">SplitError</a>	Severe	Orchestration	Error occurred in split activity.
<a href="#">SwitchExpEmpty</a>	Severe	Orchestration	The condition provided for if-then activity and case label is empty.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
SwitchExpression	Severe	Orchestration	Unable to parse the if-then expression.
TaskCancelled	Warning	Orchestration	Caught exception while cancelling job.
TaskEnd	Info	Orchestration	Ended job for specified orchestration.
TaskFound	Severe	Orchestration	Found task with specified state on undeploy.
TaskRemove	Severe	Orchestration	Unable to remove the task.
TaskStart	Info	Orchestration	Started job for specified orchestration.
TaskState	Severe	Orchestration	Unable to set the task state.
TaskStateTransition	Severe	Orchestration	Invalid task state transition happened, hence marking the job as faulted.
TaskStatusChanged	Info	Orchestration	Job status changed.
TooManyWaitingJobs	Severe	Orchestration	A job was aborted due to a large number of waiting jobs.
UnCaughtError	Severe	Orchestration	Uncaught Internal error occurred.
UnExpectedError	Severe	Orchestration	Unexpected Internal error occurred.
VariableNull	Warning	Orchestration	Specified variable is null.
WhileExpEmpty	Severe	Orchestration	The condition provided for while activity is empty.
WhileExpression	Severe	Orchestration	Unable to parse while expression with specified condition.
WrongActFactory	Severe	Orchestration	Activity factory with specified name and version returned wrong class.

- [Maestro Operation Notifications](#)  
Provides a comprehensive list of operation notifications sent from the Maestro Module.
- [Maestro Internal Notifications](#)  
Provides a comprehensive list of internal notifications sent from the Maestro Module.

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## [Maestro Operation Notifications](#)

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Provides a comprehensive list of operation notifications sent from the Maestro Module.

- [AbandonedJobs](#)  
A timeout occurred while waiting for jobs to stop and some jobs were abandoned.
- [ActInvalidLicense \(Deprecated\)](#)  
Activity Factory with specified name and version had a licensing failure.
- [ActivityFailedError](#)  
Encountered fault of specified type, please see rest of the log for more information.
- [AlreadyDeployed](#)  
The specified orchestration is already deployed.
- [CallContext](#)  
Maestro is not able to create call context.
- [CallContextDestroy](#)  
Call context created but task never started.
- [CatchExpression](#)  
Unable to parse the catch expression.

- [CleanUpFailed](#)  
Failed to clean up the activity.
- [CloseInputStream](#)  
Could not close input stream.
- [CloseOutputStream](#)  
Could not close output stream.
- [CloseReader](#)  
Could not close reader.
- [CloseWriter](#)  
Could not close writer.
- [DeactivateFailed](#)  
Maestro failed to deactivate the specified activity.
- [DebugFailed](#)  
Debugger operation failed.
- [DeleteObject](#)  
Could not clean up object with ID.
- [DestroyFailed](#)  
Maestro failed to destroy the specified activity.
- [EnqueueFailed](#)  
Unable to enqueue the orchestration.
- [EntryPath](#)  
Could not find an entry point for the specified activity in the compiled orchestration.
- [ErrorMap](#)  
Error in map activity.
- [ErrorTwoPhase](#)  
Activity could not be converted to Two phase activity.
- [ExecuteError](#)  
Unable to execute the orchestration.
- [FaultInfo](#)  
Could not initialize FaultInfo.
- [ForEach](#)  
Error occurred in for each activity.
- [InitializeJobInfo](#)  
Could not initialize job info.
- [InputMap](#)  
No input maps are there for required input parameter.
- [InputMapXPath](#)  
Could not perform input map expression.
- [InputMapXSLT](#)  
Could not perform input map XSLT.
- [InvokeError](#)  
Error occurred in module.
- [KeyLog](#)  
Logged key with specified name and value.
- [LargeInputParam](#)  
Specified input parameter is over the limit and is too large to log.
- [LargeNonpersistentVar](#)  
Specified variable is too large for a non-persistent orchestration.
- [LargeOutputParam](#)  
Specified output parameter is over the limit and is too large to log.
- [LargeTotalVarSize](#)  
This job cannot be run during low-memory conditions.
- [LargeVariable](#)  
Specified variable is over the limit and is too large to log.
- [LicenseExpireImminent \(Deprecated\)](#)  
Imminent license expiration for specified bundle - expires on specified date - Please renew the license now to avoid service interruption.
- [LicenseExpireSoon \(Deprecated\)](#)  
License for specified bundle name expires soon. Please renew the license to avoid service interruption.
- [LicenseExpired \(Deprecated\)](#)  
License has expired. Please renew the license now to avoid service interruption.
- [LicenseInvalid \(Deprecated\)](#)  
License for specified bundle name is invalid.

- [LoaderCancel](#)  
Cancel of job with specified ID of specified orchestration.
- [LoaderDelete](#)  
Delete of specified orchestration failed.
- [LoaderDeploy](#)  
Deployment of specified orchestration failed.
- [LoaderPublish](#)  
Publish of specified configuration failed.
- [LoaderStart](#)  
Start of the specified orchestration failed.
- [LoaderStop](#)  
Stop of the specified orchestration failed.
- [LoaderSuspend](#)  
Suspend of the specified orchestration failed.
- [LoaderunDeploy](#)  
Undeploy of specified orchestration failed.
- [MBeanRegister](#)  
Could not register specified object with MBean server.
- [MBeanUnregister](#)  
Could not unregister specified object with MBean server.
- [MaxSeqNum](#)  
Exceeded maximum number of activity events for a job.
- [ModuleConfig](#)  
Could not read module configuration.
- [MonitorQuery](#)  
Could not query for monitor data.
- [MonitorVariable](#)  
Could not log monitor variable.
- [MonitorVariables](#)  
Could not log monitor variables.
- [MontiorEvents](#)  
Could not log monitor events.
- [MultipleActFactory](#)  
Activity Factory with specified name and version has multiple registrations, and hence not loading it.
- [NoActivityFactory](#)  
Activity Factory with specified name and version not registered.
- [NotDeployed](#)  
Orchestration not deployed.
- [NotDocParameter](#)  
Specified parameter is not an XML document.
- [NotDocVariable](#)  
Specified variable is not an XML document.
- [NotStopped](#)  
Could not undeploy as the orchestration is not stopped.
- [NotSuspend](#)  
Could not suspend as the orchestration is not running.
- [NullParam](#)  
Specified parameter is null.
- [NullVariable](#)  
Specified variable is null.
- [OSGISyntaxError](#)  
Invalid OSGI query syntax provided.
- [OrchCompileError](#)  
Unable to compile the specified orchestration.
- [OutputMap](#)  
Could not perform output map.
- [OutputMapXPath](#)  
Could not perform output map expression.
- [OutputMapXSLT](#)  
Could not perform output map transform.
- [ParamIndex](#)  
Parameter at specified index is already set.

- [ProgramDestroy](#)  
Program in non terminal state being destroyed.
- [ProgramStart](#)  
Cannot start an orchestration that is in transient state.
- [SocketNoReply](#)  
Could not receive socket reply.
- [SplitError](#)  
Error occurred in split activity.
- [SwitchExpEmpty](#)  
The condition provided for if-then activity and case label is empty.
- [SwitchExpression](#)  
Unable to parse the if-then expression.
- [TaskCancelled](#)  
Caught exception while cancelling job.
- [TaskEnd](#)  
Ended job for specified orchestration.
- [TaskFound](#)  
Found task with specified state on undeploy.
- [TaskRemove](#)  
Unable to remove the task.
- [TaskStart](#)  
Started job for specified orchestration.
- [TaskState](#)  
Unable to set the task state.
- [TaskStateTransition](#)  
Invalid task state transition happened, hence marking the job as faulted.
- [TaskStatusChanged](#)  
Job status changed.
- [TooManyWaitingJobs](#)  
A job was aborted due to a large number of waiting jobs.
- [VariableNull](#)  
Specified variable is null.
- [WhileExpEmpty](#)  
The condition provided for while activity is empty.
- [WhileExpression](#)  
Unable to parse while expression with specified condition.
- [WrongActFactory](#)  
Activity factory with specified name and version returned wrong class.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/maestro/maestro\\_operation\\_notifications\\_list.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/maestro/maestro_operation_notifications_list.html)

## AbandonedJobs

A timeout occurred while waiting for jobs to stop and some jobs were abandoned.

Level : *Warning*

Log Message : *Timeout waiting for jobs to stop, number of jobs abandoned: {NumberOfAbandonedJobs}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-MAESTRO-MIB::ciC20oAbandonedJobsEv87*

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 87

## Variables

---

The AbandonedJobs message contains the following variables:

Table 1. AbandonedJobs Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. NumberOfAbandonedJobs</b>  The number of abandoned jobs. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv87NumberOfAbandonedJobs</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.87.1</li></ul>

**Parent topic:** [Maestro Operation Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/maestro/maestro\\_operation\\_abandonedjobs\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/maestro/maestro_operation_abandonedjobs_message.html)

## ActInvalidLicense (Deprecated)

---

As of Cast Iron version 6.0, this message has been deprecated because connectors are no longer individually licensed.

Activity Factory with specified name and version had a licensing failure.

Level : *Severe*

Log Message : *ActivityFactory (name - {ActivityName},version - {ActivityVersion}) Licensing failure: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oActInvalidLicenseEv35

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 35

## Variables

The ActInvalidLicense message contains the following variables:

Table 1. ActInvalidLicense Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>  The name of the activity. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv35ActivityName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.35.1</li></ul>
<b>6. ActivityVersion</b>  The version of the activity. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv35ActivityVersion</li></ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.35.2

## 7. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## ActivityFailedError

Encountered fault of specified type, please see rest of the log for more information.

Level : Severe

Log Message : *Encountered fault of type {FaultType}, please see rest of the log for more information*

System : Orchestration

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oActivityFailedErrorEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 3

## Variables

The ActivityFailedError message contains the following variables:

Table 1. ActivityFailedError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. FaultType

The fault type encountered.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv3FaultType
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.3.1

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ailederror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/maestro/maestro_operation_activityfailederror_message.html)

## AlreadyDeployed

The specified orchestration is already deployed.

Level : *Severe*

Log Message : *Orchestration already deployed: {OrchName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oAlreadyDeployedEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 4

## Variables

The AlreadyDeployed message contains the following variables:

Table 1. AlreadyDeployed Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. OrchName

The name of the orchestration which is already deployed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv4OrchName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.4.1

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## CallContext

Maestro is not able to create call context.

Level : Severe

Log Message : *Unable to create call context: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oCallContextEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 5

## Variables

The CallContext message contains the following variables:

Table 1. CallContext Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## CallContextDestroy

Call context created but task never started.

Level : *Info*

Log Message : *Call context created but task never started; destroying task {TaskID}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oCallContextDestroyEv80

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 80

## Variables

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The CallContextDestroy message contains the following variables:

Table 1. CallContextDestroy Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. TaskID</b>  The task ID. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv80TaskID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.80.1</li></ul>

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## CatchExpression

---

Unable to parse the catch expression.

Level : Severe

Log Message : *Unable to parse the catch expression: {Message}*  
System : *Orchestration*  
SNMP Name : *CASTIRON-COMP-MAESTRO-MIB::ciC20oCatchExpressionEv6*  
SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.20.1.2*  
SNMP Trap Number : 6

## Variables

---

The CatchExpression message contains the following variables:

Table 1. CatchExpression Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## CleanUpFailed

Failed to clean up the activity.

Level : *Warning*

Log Message : *Failed to cleanup activity {ActivityName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oCleanUpFailedEv63

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 63

## Variables

The CleanUpFailed message contains the following variables:

Table 1. CleanUpFailed Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>  The name of the activity. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv63ActivityName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.63.1</li></ul>

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/maestro/maestro\\_operation\\_cleanupfailed\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/maestro/maestro_operation_cleanupfailed_message.html)

## CloseInputStream

---

Could not close input stream.

Level : *Warning*

Log Message : *Could not close reader*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oCloseInputStreamEv64

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 64

## Variables

---

The CloseInputStream message contains the following variables:

Table 1. CloseInputStream Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## CloseOutputStream

---

Could not close output stream.

Level : *Warning*

Log Message : *Could not close output stream*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oCloseOutputStreamEv65

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 65

## Variables

---

The CloseOutputStream message contains the following variables:

Table 1. CloseOutputStream Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## CloseReader

---

Could not close reader.

Level : *Warning*

Log Message : *Could not close reader*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oCloseReaderEv66

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 66

## Variables

---

The CloseReader message contains the following variables:

Table 1. CloseReader Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## CloseWriter

Could not close writer.

Level : *Warning*

Log Message : *Could not close writer*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oCloseWriterEv67

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 67

## Variables

The CloseWriter message contains the following variables:

Table 1. CloseWriter Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## DeactivateFailed

Maestro failed to deactivate the specified activity.

Level : *Severe*

Log Message : *Failed to deactivate activity {ActivityName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oDeactivateFailedEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 1

## Variables

The DeactivateFailed message contains the following variables:

Table 1. DeactivateFailed Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li></ul>

- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. ActivityName

Name of the activity which caused the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv1ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.1.1

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## DebugFailed

Debugger operation failed.

Level : *Severe*

Log Message : *Debugger operation {Value} failed*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oDebugFailedEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 8

## Variables

The DebugFailed message contains the following variables:

Table 1. DebugFailed Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Value

The operation which failed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv8Value
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.8.1

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## DeleteObject

Could not clean up object with ID.

Level : *Warning*

Log Message : *Could not clean up object with ID {ObjectID}, will try later*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oDeleteObjectEv68

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 68

## Variables

The DeleteObject message contains the following variables:

Table 1. DeleteObject Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. ObjectID

The ID of the object.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv68ObjectID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.68.1

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## DestroyFailed

Maestro failed to destroy the specified activity.

Level : Severe

Log Message : *Failed to destroy activity {ActivityName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oDestroyFailedEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 2

## Variables

The DestroyFailed message contains the following variables:

Table 1. DestroyFailed Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. ActivityName

Name of the activity which caused the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv2ActivityName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.2.1

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## EnqueueFailed

Unable to enqueue the orchestration.

Level : *Severe*

Log Message : *Unable to enqueue to orchestration: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oEnqueueFailedEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 9

## Variables

---

The EnqueueFailed message contains the following variables:

Table 1. EnqueueFailed Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## EntryPath

---

Could not find an entry point for the specified activity in the compiled orchestration.

Level : Severe

Log Message : Could not find an entry point for the activity: `[[ActivityName]]` in the compiled orchestration

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oEntryPathEv38

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 38

## Variables

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The EntryPath message contains the following variables:

Table 1. EntryPath Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>  The name of the activity. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv38ActivityName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.38.1</li></ul>

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## ErrorMap

Error in map activity.

Level : *Severe*

Log Message : *Exception in map activity: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oErrorMapEv29

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 29

## Variables

The ErrorMap message contains the following variables:

Table 1. ErrorMap Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## ErrorTwoPhase

---

Activity could not be converted to Two phase activity.

Level : *Severe*

Log Message : *Activity could not be converted into TwoPhase activity*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oErrorTwoPhaseEv59

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 59

## Variables

---

The ErrorTwoPhase message contains the following variables:

Table 1. ErrorTwoPhase Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## ExecuteError

---

Unable to execute the orchestration.

Level : *Severe*

Log Message : *Unable to execute to orchestration: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oExecuteErrorEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 10

## Variables

---

The ExecuteError message contains the following variables:

Table 1. ExecuteError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## FaultInfo

---

Could not initialize FaultInfo.

Level : *Severe*

Log Message : *Could not initialize FaultInfo*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oFaultInfoEv11

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 11

## Variables

---

The FaultInfo message contains the following variables:

Table 1. FaultInfo Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## ForEach

---

Error occurred in for each activity.

Level : *Severe*

Log Message : *Exception in foreach activity: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oForEachEv12

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 12

## Variables

---

The ForEach message contains the following variables:

Table 1. ForEach Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## InitializeJobInfo

---

Could not initialize job info.

Level : Severe

Log Message : *Could not initialize JobInfo*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oInitializeJobInfoEv17

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 17

## Variables

---

The InitializeJobInfo message contains the following variables:

Table 1. InitializeJobInfo Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber

- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## InputMap

No input maps are there for required input parameter.

Level : *Severe*

Log Message : *No input map for required parameter: {ParamName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oInputMapEv13

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 13

## Variables

The InputMap message contains the following variables:

Table 1. InputMap Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ParamName</b>  The required parameter name for which input maps are missing. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv13ParamName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.13.1</li></ul>

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## InputMapXPath

---

Could not perform input map expression.

Level : *Severe*

Log Message : *Could not perform input map expression: {ExpressionName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oInputMapXPathEv14

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 14

## Variables

---

The InputMapXPath message contains the following variables:

Table 1. InputMapXPath Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ExpressionName</b>  The name of the expression. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv14ExpressionName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.14.1</li></ul>

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## InputMapXSLT

---

Could not perform input map XSLT.

Level : *Severe*

Log Message : *Could not perform input map transform: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oInputMapXSLTEv15

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 15

## Variables

The InputMapXSLT message contains the following variables:

Table 1. InputMapXSLT Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/maestro/maestro\\_operation\\_inputmapxslt\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/maestro/maestro_operation_inputmapxslt_message.html)

## InvokeError

---

Error occurred in module.

Level : *Severe*

Log Message : *Exception detected in module, throwing exception {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oInvokeErrorEv16

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 16

## Variables

---

The InvokeError message contains the following variables:

Table 1. InvokeError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## KeyLog

Logged key with specified name and value.

Level : *Info*

Log Message : *Logged key with name "{KeyName}" and value "{KeyValue}"*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oKeyLogEv81

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 81

## Variables

The KeyLog message contains the following variables:

Table 1. KeyLog Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. KeyName

The key name.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv81KeyName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.81.1

## 6. KeyValue

The key value.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv81KeyValue
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.81.2

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## LargeInputParam

Specified input parameter is over the limit and is too large to log.

Level : *Warning*

Log Message : *Input parameter "{ParamName}" is over {Length} and is too large to log*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oLargeInputParamEv71

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 71

## Variables

The LargeInputParam message contains the following variables:

Table 1. LargeInputParam Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. ParamName

The parameter name.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv71ParamName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.71.1

### 6. Length

The limit for the size.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv71Length
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.71.2

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## LargeNonpersistentVar

Specified variable is too large for a non-persistent orchestration.

Level : *Severe*

Log Message : Variable "*{VariableName}*" is too large, please turn on persistence for this orchestration

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oLargeNonpersistentVarEv86

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 86

## Variables

---

The LargeNonpersistentVar message contains the following variables:

Table 1. LargeNonpersistentVar Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. VariableName</b>  The variable name. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv86VariableName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.86.1</li></ul>

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## LargeOutputParam

---

Specified output parameter is over the limit and is too large to log.

Level : *Warning*

Log Message : Output parameter "{ParamName}" is over {Length} and is too large to log

System : Orchestration

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oLargeOutputParamEv72

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 72

## Variables

---

The LargeOutputParam message contains the following variables:

Table 1. LargeOutputParam Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ParamName</b>  The parameter name. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv72ParamName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.72.1</li></ul>
<b>6. Length</b>  The limit for the size. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv72Length</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.72.2</li></ul>

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## LargeTotalVarSize

---

This job cannot be run during low-memory conditions.

Level : *Severe*

Log Message : *Cannot complete this job due to low memory, please try redeploying this orchestration*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oLargeTotalVarSizeEv85

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 85

## Variables

---

The LargeTotalVarSize message contains the following variables:

Table 1. LargeTotalVarSize Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## LargeVariable

Specified variable is over the limit and is too large to log.

Level : *Warning*

Log Message : Variable "*{VariableName}*" is over *{Length}* and is too large to log

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oLargeVariableEv73

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 73

## Variables

The LargeVariable message contains the following variables:

Table 1. LargeVariable Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. VariableName

The variable name.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv73VariableName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.73.1

## 6. Length

The limit for the size.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv73Length
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.73.2

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## LicenseExpireImminent (Deprecated)

As of Cast Iron version 6.0, this message has been deprecated because connectors are no longer individually licensed.

Imminent license expiration for specified bundle - expires on specified date - Please renew the license now to avoid service interruption.

Level : Severe

Log Message : *Imminent license expiration for {BundleName} - expires: {Date} - Please renew the license now to avoid service interruption*

System : Orchestration

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oLicenseExpireImminentEv26

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 26

## Variables

The LicenseExpireImminent message contains the following variables:

Table 1. LicenseExpireImminent Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. BundleName

The bundle for which license expires.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv26BundleName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.26.1

## 6. Date

The date on which license expires.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv26Date
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.26.2

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/maestro/maestro\\_operation\\_licensee\\_expireimminent\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/maestro/maestro_operation_licensee_expireimminent_message.html)

## LicenseExpireSoon (Deprecated)

As of Cast Iron version 6.0, this message has been deprecated because connectors are no longer individually licensed.

License for specified bundle name expires soon. Please renew the license to avoid service interruption.

Level : *Warning*

Log Message : License for {BundleName} expires soon: {Date} - Please renew the license to avoid service interruption

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oLicenseExpireSoonEv69

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 69

## Variables

The LicenseExpireSoon message contains the following variables:

Table 1. LicenseExpireSoon Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. BundleName</b>  The bundle name for which license expires soon. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv69BundleName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.69.1</li></ul>
<b>6. Date</b>  The date at which license expires. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv69Date</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.69.2</li></ul>

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/maestro/maestro\\_operation\\_licensee\\_xpiresoon\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/maestro/maestro_operation_licensee_xpiresoon_message.html)

## LicenseExpired (Deprecated)

As of Cast Iron version 6.0, this message has been deprecated because connectors are no longer individually licensed.

License has expired. Please renew the license now to avoid service interruption.

Level : *Severe*

Log Message : *License for {BundleName} has expired - expired as of: {Date} - Please renew the license now to avoid service interruption*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oLicenseExpiredEv27

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 27

## Variables

The LicenseExpired message contains the following variables:

Table 1. LicenseExpired Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. BundleName</b>  The bundle for which license expired.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv27BundleName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.27.1

## 6. Date

The date on which license expired.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv27Date
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.27.2

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## LicenseInvalid (Deprecated)

As of Cast Iron version 6.0, this message has been deprecated because connectors are no longer individually licensed.

License for specified bundle name is invalid.

Level : Severe

Log Message : License for {*BundleName*} is invalid: {1}

System : Orchestration

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oLicenseInvalidEv28

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 28

## Variables

The LicenseInvalid message contains the following variables:

Table 1. LicenseInvalid Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. BundleName

The bundle for which license is invalid.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv28BundleName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.28.1

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## LoaderCancel

---

Cancel of job with specified ID of specified orchestration.

Level : Severe

Log Message : *Cancel of job {JobID} of Orchestration {OrchName} failed: {Message}*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oLoaderCancelEv25

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 25

## Variables

---

The LoaderCancel message contains the following variables:

Table 1. LoaderCancel Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. JobID

The job id which was cancelled.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv25JobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.25.1

### 6. OrchName

The orchestration name.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv25OrchName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.25.2

### 7. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## LoaderDelete

---

Delete of specified orchestration failed.

Level : Severe

Log Message : Delete of Orchestration {OrchName} failed: {Message}.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oLoaderDeleteEv24

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 24

## Variables

---

The LoaderDelete message contains the following variables:

Table 1. LoaderDelete Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. OrchName</b>  The orchestration name for which suspend failed. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv24OrchName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.24.1</li></ul>
<b>6. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## LoaderDeploy

---

Deployment of specified orchestration failed.

Level : *Severe*

Log Message : *Deploy of Orchestration {OrchName} failed: {Message}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oLoaderDeployEv19

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 19

## Variables

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The LoaderDeploy message contains the following variables:

Table 1. LoaderDeploy Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. OrchName</b>  The orchestration name for which deployment failed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv19OrchName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.19.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## LoaderPublish

Publish of specified configuration failed.

Level : *Severe*

Log Message : *Publish of Configuration {ConfigName} failed: {Message}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oLoaderPublishEv18

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 18

## Variables

The LoaderPublish message contains the following variables:

Table 1. LoaderPublish Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. ConfigName

The configuration name for which loading failed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv18ConfigName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.18.1

#### 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/maestro/maestro\\_operation\\_loaderpublish\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/maestro/maestro_operation_loaderpublish_message.html)

## LoaderStart

Start of the specified orchestration failed.

Level : Severe

Log Message : *Start of Orchestration {OrchName} failed: {Message}*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oLoaderStartEv20

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 20

## Variables

The LoaderStart message contains the following variables:

Table 1. LoaderStart Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. OrchName

The orchestration name for which start failed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv20OrchName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.20.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## LoaderStop

Stop of the specified orchestration failed.

Level : Severe

Log Message : Stop of Orchestration {OrchName} failed: {Message}.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oLoaderStopEv22

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 22

## Variables

The LoaderStop message contains the following variables:

Table 1. LoaderStop Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. OrchName</b>  The orchestration name for which stop failed. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv22OrchName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.22.1</li></ul>
<b>6. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## LoaderSuspend

---

Suspend of the specified orchestration failed.

Level : *Severe*

Log Message : *Suspend of Orchestration {OrchName} failed: {Message}*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oLoaderSuspendEv23

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 23

## Variables

---

The LoaderSuspend message contains the following variables:

Table 1. LoaderSuspend Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. OrchName</b>  The orchestration name for which suspend failed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv23OrchName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.23.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## LoaderunDeploy

Undeploy of specified orchestration failed.

Level : *Severe*

Log Message : *Undeploy of Orchestration {OrchName} failed: {Message}*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oLoaderunDeployEv21

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 21

## Variables

The LoaderunDeploy message contains the following variables:

Table 1. LoaderunDeploy Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. OrchName

The orchestration name for which undeploy failed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv21OrchName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.21.1

#### 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## MBeanRegister

Could not register specified object with MBean server.

Level : *Severe*

Log Message : *Could not register {ObjectName} with mbean server*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oMBeanRegisterEv30

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 30

## Variables

The MBeanRegister message contains the following variables:

Table 1. MBeanRegister Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. ObjectName

The object name which could not be registered with MBean server.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv30ObjectName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.30.1

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## MBeanUnregister

Could not unregister specified object with MBean server.

Level : *Severe*

Log Message : *Could not unregister {ObjectName} with mbean server*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oMBeanUnregisterEv31

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 31

## Variables

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The MBeanUnregister message contains the following variables:

Table 1. MBeanUnregister Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ObjectName</b>  The object name which could not be unregistered with MBean server. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv31ObjectName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.31.1</li></ul>

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## MaxSeqNum

---

Exceeded maximum number of activity events for a job.

Level : *Warning*

Log Message : Exceeded maximum number of activity events for a job; logging disabled

System : Orchestration

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oMaxSeqNumEv74

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 74

## Variables

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The MaxSeqNum message contains the following variables:

Table 1. MaxSeqNum Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## ModuleConfig

---

Could not read module configuration.

Level : Severe

Log Message : Could not read the module configuration: {Message}

System : Orchestration

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oModuleConfigEv32

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 32

## Variables

---

The ModuleConfig message contains the following variables:

Table 1. ModuleConfig Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## MonitorQuery

Could not query for monitor data.

Level : *Severe*

Log Message : *Could not query for monitor data*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oMonitorQueryEv34

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 34

## Variables

The MonitorQuery message contains the following variables:

Table 1. MonitorQuery Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## MonitorVariable

Could not log monitor variable.

Level : *Warning*

Log Message : *Could not log monitor variable "{VariableName}"*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-MAESTRO-MIB::ciC20oMonitorVariableEv75*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.20.1.2*

SNMP Trap Number : *75*

## Variables

The MonitorVariable message contains the following variables:

Table 1. MonitorVariable Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. VariableName</b>  The variable name. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv75VariableName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.75.1</li></ul>

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## MonitorVariables

---

Could not log monitor variables.

Level : *Warning*

Log Message : *Could not log monitor variables*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oMonitorVariablesEv76

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 76

## Variables

---

The MonitorVariables message contains the following variables:

Table 1. MonitorVariables Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## MontiorEvents

Could not log monitor events.

Level : *Severe*

Log Message : *Could not log monitor events*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oMontiorEventsEv33

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 33

## Variables

The MontiorEvents message contains the following variables:

Table 1. MontiorEvents Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## MultipleActFactory

Activity Factory with specified name and version has multiple registrations, and hence not loading it.

Level : *Severe*

Log Message : *ActivityFactory (name - {ActivityName},version - {ActivityVersion}) has multiple registrations, not loading*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-MAESTRO-MIB::ciC20oMultipleActFactoryEv36*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.20.1.2*

SNMP Trap Number : *36*

## Variables

The MultipleActFactory message contains the following variables:

Table 1. MultipleActFactory Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. ActivityName

The name of the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv36ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.36.1

## 6. ActivityVersion

The version of the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv36ActivityVersion
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.36.2

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## NoActivityFactory

---

Activity Factory with specified name and version not registered.

Level : *Severe*

Log Message : *ActivityFactory (name - {ActivityName}, version - {ActivityVersion}) not registered*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oNoActivityFactoryEv37

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 37

## Variables

---

The NoActivityFactory message contains the following variables:

Table 1. NoActivityFactory Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity

- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. ActivityName

The name of the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv37ActivityName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.37.1

### 6. ActivityVersion

The version of the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv37ActivityVersion
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.37.2

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## NotDeployed

Orchestration not deployed.

Level : *Severe*

Log Message : *Orchestration not deployed: {OrchName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oNotDeployedEv39

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 39

## Variables

The NotDeployed message contains the following variables:

Table 1. NotDeployed Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. OrchName</b>  The name of the orchestration not deployed.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv39OrchName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.39.1</li></ul>

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## NotDocParameter

---

Specified parameter is not an XML document.

Level : *Severe*

Log Message : *Parameter {ParamName} is not an XML document*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oNotDocParameterEv40

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 40

## Variables

---

The NotDocParameter message contains the following variables:

Table 1. NotDocParameter Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ParamName</b>  The name of the parameter which is not an XML document. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv40ParamName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.40.1</li></ul>

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## NotDocVariable

---

Specified variable is not an XML document.

Level : *Severe*

Log Message : *Variable {ParamName} is not an XML document*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-MAESTRO-MIB::ciC20oNotDocVariableEv41*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.20.1.2*

SNMP Trap Number : *41*

## Variables

The NotDocVariable message contains the following variables:

Table 1. NotDocVariable Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ParamName</b>  The name of the variable which is not an XML document. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv41ParamName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.41.1</li></ul>

**Parent topic:** [Maestro Operation Notifications](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/maestro/maestro\\_operation\\_notdocvariable\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/maestro/maestro_operation_notdocvariable_message.html)

## NotStopped

---

Could not undeploy as the orchestration is not stopped.

Level : *Severe*

Log Message : *Could not undeploy, orchestration not stopped, state is {State}: {OrchName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oNotStoppedEv43

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 43

## Variables

---

The NotStopped message contains the following variables:

Table 1. NotStopped Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. State</b>  The current state of the orchestration.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>

- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv43State
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.43.1

## 6. OrchName

The orchestration name that is not running.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv43OrchName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.43.2

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## NotSuspend

Could not suspend as the orchestration is not running.

Level : Severe

Log Message : *Could not suspend, orchestration not running: {OrchName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oNotSuspendEv42

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 42

## Variables

The NotSuspend message contains the following variables:

Table 1. NotSuspend Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. OrchName

The orchestration name that is not running.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv42OrchName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.42.1

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## NullParam

Specified parameter is null.

Level : *Severe*

Log Message : *Parameter {ParamName} is null*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oNullParamEv44

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 44

## Variables

The NullParam message contains the following variables:

Table 1. NullParam Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. ParamName

The param name which is null.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv44ParamName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.44.1

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## NullVariable

Specified variable is null.

Level : *Severe*

Log Message : *Variable {VariableName} is null*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oNullVariableEv45

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 45

## Variables

The NullVariable message contains the following variables:

Table 1. NullVariable Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. VariableName

The variable name which is null.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv45VariableName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.45.1

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## OSGISyntaxError

Invalid OSGI query syntax provided.

Level : *Severe*

Log Message : *Invalid OSGI query syntax: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oOSGISyntaxErrorEv46

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 46

## Variables

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The OSGISyntaxError message contains the following variables:

Table 1. OSGISyntaxError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## OrchCompileError

---

Unable to compile the specified orchestration.

Level : Severe

Log Message : *Unable to compile the orchestration {OrchName}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-MAESTRO-MIB::ciC20oOrchCompileErrorEv7*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.20.1.2*

SNMP Trap Number : *7*

## Variables

---

The OrchCompileError message contains the following variables:

Table 1. OrchCompileError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. OrchName</b>  The name of the orchestration which was not compiled. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv7OrchName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.7.1</li></ul>

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## OutputMap

Could not perform output map.

Level : *Severe*

Log Message : *Could not perform output map: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oOutputMapEv47

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 47

## Variables

The OutputMap message contains the following variables:

Table 1. OutputMap Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## OutputMapXPath

---

Could not perform output map expression.

Level : *Severe*

Log Message : *Could not perform output map expression: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oOutputMapXPathEv48

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 48

## Variables

---

The OutputMapXPath message contains the following variables:

Table 1. OutputMapXPath Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## OutputMapXSLT

---

Could not perform output map transform.

Level : *Severe*

Log Message : *Could not perform output map transform: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oOutputMapXSLTEv49

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 49

## Variables

---

The OutputMapXSLT message contains the following variables:

Table 1. OutputMapXSLT Message Variables

<b>1. SerialNumber</b> <p>The serial number of the appliance sending the trap.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b> <p>The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## ParamIndex

---

Parameter at specified index is already set.

Level : *Warning*

Log Message : *Parameter at paramIndex {ParamIndex} and varIndex {VariableIndex} already set*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oParamIndexEv78

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 78

## Variables

---

The ParamIndex message contains the following variables:

Table 1. ParamIndex Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. ParamIndex

The parameter index.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv78ParamIndex
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.78.1

### 6. VariableIndex

The variable index.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv78VariableIndex
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.78.2

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## ProgramDestroy

---

Program in non terminal state being destroyed.

Level : *Severe*

Log Message : *Program in non-terminal state being destroyed: {ConfigURL}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oProgramDestroyEv50

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 50

---

## Variables

The ProgramDestroy message contains the following variables:

Table 1. ProgramDestroy Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. ConfigURL</b>
The config URL of the program being destroyed.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv50ConfigURL</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.50.1</li> </ul>

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## ProgramStart

---

Cannot start an orchestration that is in transient state.

Level : Severe

Log Message : *Cannot start an orchestration that is in transient state: {State}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oProgramStartEv51

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 51

## Variables

---

The ProgramStart message contains the following variables:

Table 1. ProgramStart Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. State</b>  The current state of the orchestration. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv51State</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.51.1</li></ul>

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## SocketNoReply

---

Could not receive socket reply.

Level : *Warning*

Log Message : *Could not receive socket reply*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oSocketNoReplyEv70

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 70

## Variables

---

The SocketNoReply message contains the following variables:

Table 1. SocketNoReply Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## SplitError

---

Error occurred in split activity.

Level : *Severe*

Log Message : *Exception in split activity: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oSplitErrorEv52

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 52

## Variables

The SplitError message contains the following variables:

Table 1. SplitError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## SwitchExpEmpty

---

The condition provided for if-then activity and case label is empty.

Level : *Severe*

Log Message : *The condition provided for if-then activity [{ActivityName}] and case label [{CaseLabel}] is empty*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oSwitchExpEmptyEv54

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 54

## Variables

---

The SwitchExpEmpty message contains the following variables:

Table 1. SwitchExpEmpty Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>  The name of the activity. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv54ActivityName</li></ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.54.1

## 6. CaseLabel

The name of the label.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv54CaseLabel
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.54.2

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## SwitchExpression

Unable to parse the if-then expression.

Level : Severe

Log Message : *Unable to parse the if-then expression: {Message}*

System : Orchestration

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oSwitchExpressionEv53

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 53

## Variables

The SwitchExpression message contains the following variables:

Table 1. SwitchExpression Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## TaskCancelled

Caught exception while cancelling job.

Level : *Warning*

Log Message : *Caught exception while canceling job: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oTaskCancelledEv79

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 79

## Variables

The TaskCancelled message contains the following variables:

Table 1. TaskCancelled Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## TaskEnd

Ended job for specified orchestration.

Level : *Info*

Log Message : *Ended job for orchestration "{OrchName}"*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oTaskEndEv84

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 84

## Variables

The TaskEnd message contains the following variables:

Table 1. TaskEnd Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. OrchName

The specified orchestration name.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv84OrchName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.84.1

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## TaskFound

Found task with specified state on undeploy.

Level : *Severe*

Log Message : *On undeploy, found task {TaskName} whose state is {State}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oTaskFoundEv55

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 55

## Variables

The TaskFound message contains the following variables:

Table 1. TaskFound Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. TaskName</b>  The task name. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv55TaskName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.55.1</li></ul>
<b>6. State</b>  The state of the task. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv55State</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.55.2</li></ul>

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# TaskRemove

---

Unable to remove the task.

Level : *Severe*

Log Message : *Unable to remove task {TaskID}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oTaskRemoveEv56

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 56

## Variables

---

The TaskRemove message contains the following variables:

Table 1. TaskRemove Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. TaskID</b>  The task ID for the task which was not removed. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv56TaskID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.56.1</li></ul>

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## TaskStart

---

Started job for specified orchestration.

Level : *Info*

Log Message : *Started job for orchestration "{OrchName}"*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oTaskStartEv82

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 82

## Variables

---

The TaskStart message contains the following variables:

Table 1. TaskStart Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. OrchName</b>  The specified orchestration name.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv82OrchName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.82.1

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## TaskState

---

Unable to set the task state.

Level : *Severe*

Log Message : *Unable to set state of task {CurrentState} to {FinalState}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oTaskStateEv57

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 57

## Variables

---

The TaskState message contains the following variables:

Table 1. TaskState Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. CurrentState

The current state of the task.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv57CurrentState
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.57.1

## 6. FinalState

The final state of the task.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv57FinalState
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.57.2

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## TaskStateTransition

Invalid task state transition happened, hence marking the job as faulted.

Level : *Severe*

Log Message : *Invalid task state transition, marked job faulted*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oTaskStateTransitionEv58

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 58

## Variables

The TaskStateTransition message contains the following variables:

Table 1. TaskStateTransition Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## TaskStatusChanged

Job status changed.

Level : *Info*

Log Message : *Job status changed to {Status}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oTaskStatusChangedEv83

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 83

## Variables

The TaskStatusChanged message contains the following variables:

Table 1. TaskStatusChanged Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Status

The new job status.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv83Status
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.83.1

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## TooManyWaitingJobs

A job was aborted due to a large number of waiting jobs.

Level : Severe

Log Message : *Running of job for orchestration {OrchName} aborted due to large number of waiting jobs*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oTooManyWaitingJobsEv88

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 88

## Variables

The TooManyWaitingJobs message contains the following variables:

Table 1. TooManyWaitingJobs Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. OrchName

The orchestration name.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv88OrchName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.88.1

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## VariableNull

Specified variable is null.

Level : *Warning*

Log Message : *Variable {VarName} is null*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oVariableNullEv77

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 77

## Variables

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The VariableNull message contains the following variables:

Table 1. VariableNull Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. VarName</b>  The variable name which is null.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv77VarName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.77.1</li></ul>

Parent topic: [Maestro Operation Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/maestro/maestro\\_operation\\_variable\\_null\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/maestro/maestro_operation_variable_null_message.html)

## WhileExpEmpty

---

The condition provided for while activity is empty.

Level : Severe

Log Message : The condition provided for while activity {[ActivityName]} is empty

System : Orchestration

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oWhileExpEmptyEv61

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 61

## Variables

---

The WhileExpEmpty message contains the following variables:

Table 1. WhileExpEmpty Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>  The name of the activity. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv61ActivityName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.61.1</li></ul>

Parent topic: [Maestro Operation Notifications](#)

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## WhileExpression

Unable to parse while expression with specified condition.

Level : Severe

Log Message : *Unable to parse the while expression "{ConditionSpecified}": {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oWhileExpressionEv60

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 60

## Variables

The WhileExpression message contains the following variables:

Table 1. WhileExpression Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ConditionSpecified</b>  The condition specified for the while expression. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv60ConditionSpecified</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.60.1</li></ul>
<b>6. Message</b>

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [Maestro Operation Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/maestro/maestro\\_operation\\_whileexpression\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/maestro/maestro_operation_whileexpression_message.html)

## WrongActFactory

---

Activity factory with specified name and version returned wrong class.

Level : *Severe*

Log Message : *ActivityFactory (name - {ActivityName},version - {ActivityVersion}) returned wrong class {ActivityClass}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20oWrongActFactoryEv62

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.2

SNMP Trap Number : 62

## Variables

---

The WrongActFactory message contains the following variables:

Table 1. WrongActFactory Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. ActivityName

The name of the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv62ActivityName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.62.1

## 6. ActivityVersion

The version of the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv62ActivityVersion
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.62.2

## 7. ActivityClass

The class of the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv62ActivityClass
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.62.3

**Parent topic:** [Maestro Operation Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/maestro/maestro\\_operation\\_wrongacfactory\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/maestro/maestro_operation_wrongacfactory_message.html)

# Maestro Internal Notifications

---

Provides a comprehensive list of internal notifications sent from the Maestro Module.

- **IOError**  
Internal error occurred because of Input/Output error.
- **UnCaughtError**  
Uncaught Internal error occurred.
- **UnExpectedError**  
Unexpected Internal error occurred.

**Parent topic:** [Maestro Module](#)

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## IOError

Internal error occurred because of Input/Output error.

Level : *Warning*

Log Message : *Internal error: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20iIOErrorEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.3

SNMP Trap Number : 3

## Variables

The IOError message contains the following variables:

Table 1. IOError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

Parent topic: [Maestro Internal Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/maestro/maestro\\_internal\\_ioerror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/maestro/maestro_internal_ioerror_message.html)

## UnCaughtError

---

Uncaught Internal error occurred.

Level : *Severe*

Log Message : *Internal error: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20iUnCaughtErrorEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.3

SNMP Trap Number : 1

## Variables

---

The UnCaughtError message contains the following variables:

Table 1. UnCaughtError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [Maestro Internal Notifications](#)

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## UnExpectedError

---

Unexpected Internal error occurred.

Level : *Severe*

Log Message : *Internal error: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MAESTRO-MIB::ciC20iUnExpectedErrorEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.20.1.3

SNMP Trap Number : 2

## Variables

---

The UnExpectedError message contains the following variables:

Table 1. UnExpectedError Message Variables

<b>1. SerialNumber</b> <p>The serial number of the appliance sending the trap.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b> <p>The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [Maestro Internal Notifications](#)

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## NetSuite Module

---

The NetSuite Module provides access to the NetSuite online service. This section contains details for the messages delivered from the NetSuite Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the NetSuite Module.

MIB Name : *CASTIRON-COMP-NETSUITE-MIB*

MIB OID : .1.3.6.1.4.1.13336.2.2.3.11

The following table provides an alphabetical list of all notifications that can be issued by the NetSuite Module.

Table 1. Notifications issued by the NetSuite Module

Notification	Level	System	Description
<a href="#">ConnectionFailed</a>	Severe	Orchestration	The NetSuite operation failed because a connection to the server could not be established.
<a href="#">ConnectionPoolError</a>	Warning	Orchestration	Error occurred while returning connection to pool. Continuing the activity.
<a href="#">ConnectionRetry</a>	Warning	Orchestration	The NetSuite operation failed while trying to connect to the server. The operation will be retried.
<a href="#">CustomFieldError</a>	Severe	Orchestration	Error occurred and returned specified soap fault while getting custom fields for the recordType.
<a href="#">IOError</a>	Severe	Orchestration	Unexpected IO error occurred while performing operation with NetSuite.
<a href="#">SoapError</a>	Severe	Orchestration	Error occurred while creating SOAP message.
<a href="#">StreamError</a>	Severe	Orchestration	Unexpected IO exception occurred while streaming the message.
<a href="#">TransformationError</a>	Severe	Orchestration	An error occurred while processing a message for NetSuite.

Notification	Level	System	Description
<a href="#">UnknownError</a>	Severe	Orchestration	Unknown error while invoking an operation on NetSuite.

- [NetSuite Connection Notifications](#)  
Provides a comprehensive list of connection notifications sent from the NetSuite Module.
- [NetSuite Operation Notifications](#)  
Provides a comprehensive list of operation notifications sent from the NetSuite Module.
- [NetSuite Internal Notifications](#)  
Provides a comprehensive list of internal notifications sent from the NetSuite Module.

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## NetSuite Connection Notifications

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Provides a comprehensive list of connection notifications sent from the NetSuite Module.

- [ConnectionFailed](#)  
The NetSuite operation failed because a connection to the server could not be established.
- [ConnectionPoolError](#)  
Error occurred while returning connection to pool. Continuing the activity.
- [ConnectionRetry](#)  
The NetSuite operation failed while trying to connect to the server. The operation will be retried.

**Parent topic:** [NetSuite Module](#)

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## ConnectionFailed

---

The NetSuite operation failed because a connection to the server could not be established.

Level : *Severe*

Log Message : *Unable to connect to NetSuite after {NumberOfRetryAttempts} attempts. Error is: {Message}.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-NETSUITE-MIB::ciC11cConnectionFailedEv2*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.11.1.1*

SNMP Trap Number : *2*

## Variables

---

The ConnectionFailed message contains the following variables:

Table 1. ConnectionFailed Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. NumberOfRetryAttempts</b>  The total number of attempted retries. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-NETSUITE-MIB::ciC11cEv2NumberOfRetryAttempts</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.11.1.1.1.2.1</li></ul>
<b>6. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

**Parent topic:** [NetSuite Connection Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/netsuite/netsuite\\_connection\\_connectionfailed\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/netsuite/netsuite_connection_connectionfailed_message.html)

# ConnectionPoolError

---

Error occurred while returning connection to pool. Continuing the activity.

Level : *Warning*

Log Message : *Exception while returning connection to pool. Swallowing the exception. The Exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-NETSUITE-MIB::ciC11cConnectionPoolErrorEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.11.1.1

SNMP Trap Number : 3

## Variables

---

The ConnectionPoolError message contains the following variables:

Table 1. ConnectionPoolError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

Parent topic: [NetSuite Connection Notifications](#)

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## ConnectionRetry

---

The NetSuite operation failed while trying to connect to the server. The operation will be retried.

Level : *Warning*

Log Message : *Unable to connect to NetSuite. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-NETSUITE-MIB::ciC11cConnectionRetryEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.11.1.1

SNMP Trap Number : 1

## Variables

---

The ConnectionRetry message contains the following variables:

Table 1. ConnectionRetry Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

## 6. RetryAttemptNumber

The current number of retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-NETSUITE-MIB::ciC11cEv1RetryAttemptNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.11.1.1.1.2

## 7. TotalRetryAttempts

The specified number of attempts to connect to the server before stopping.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-NETSUITE-MIB::ciC11cEv1TotalRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.11.1.1.1.3

## 8. IntervalForRetries

The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-NETSUITE-MIB::ciC11cEv1IntervalForRetries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.11.1.1.1.4

**Parent topic:** [NetSuite Connection Notifications](#)

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# NetSuite Operation Notifications

---

Provides a comprehensive list of operation notifications sent from the NetSuite Module.

- [CustomFieldError](#)  
Error occurred and returned specified soap fault while getting custom fields for the recordType.
- [TransformationError](#)  
An error occurred while processing a message for NetSuite.

**Parent topic:** [NetSuite Module](#)

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# CustomFieldError

---

Error occurred and returned specified soap fault while getting custom fields for the recordType.

Level : *Severe*

Log Message : *Exception while getting custom fields for the recordType. The soap fault code is {SoapFaultCode} and fault message is {SoapFaultMessage}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-NETSUITE-MIB::ciC11oCustomFieldErrorEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.11.1.2

SNMP Trap Number : 2

## Variables

---

The CustomFieldError message contains the following variables:

Table 1. CustomFieldError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. SoapFaultCode</b>  The soap fault returned by the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-NETSUITE-MIB::ciC11oEv2SoapFaultCode</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.11.1.2.1.2.1</li></ul>
<b>6. SoapFaultMessage</b>  The soap fault message returned by the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-NETSUITE-MIB::ciC11oEv2SoapFaultMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.11.1.2.1.2.2

**Parent topic:** [NetSuite Operation Notifications](#)

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## TransformationError

An error occurred while processing a message for NetSuite.

Level : *Severe*

Log Message : *Exception while processing a message for NetSuite. Exception is {Message}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-NETSUITE-MIB::ciC11oTransformationErrorEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.11.1.2

SNMP Trap Number : 1

## Variables

The TransformationError message contains the following variables:

Table 1. TransformationError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [NetSuite Operation Notifications](#)

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## NetSuite Internal Notifications

Provides a comprehensive list of internal notifications sent from the NetSuite Module.

- [IOError](#)  
Unexpected IO error occurred while performing operation with NetSuite.
- [SoapError](#)  
Error occurred while creating SOAP message.
- [StreamError](#)  
Unexpected IO exception occurred while streaming the message.
- [UnknownError](#)  
Unknown error while invoking an operation on NetSuite.

**Parent topic:** [NetSuite Module](#)

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## IOError

Unexpected IO error occurred while performing operation with NetSuite.

Level : *Severe*

Log Message : *Unexpected IO error while performing operation with NetSuite. The exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-NETSUITE-MIB::ciC11iIOErrorEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.11.1.3

## Variables

---

The IOError message contains the following variables:

Table 1. IOError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. Message</b>
Textual description of the error.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li> </ul>

**Parent topic:** [NetSuite Internal Notifications](#)

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## SoapError

---

Error occurred while creating SOAP message.

Level : Severe

Log Message : *Exception while creating soap message. The exception is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-NETSUITE-MIB::ciC11iSoapErrorEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.11.1.3

SNMP Trap Number : 2

## Variables

---

The SoapError message contains the following variables:

Table 1. SoapError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

Parent topic: [NetSuite Internal Notifications](#)

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## StreamError

Unexpected IO exception occurred while streaming the message.

Level : Severe

Log Message : *Unexpected IO exception while streaming the message. The exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-NETSUITE-MIB::ciC11iStreamErrorEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.11.1.3

SNMP Trap Number : 3

## Variables

The StreamError message contains the following variables:

Table 1. StreamError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/netsuite/netsuite\\_internal\\_streamerror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/netsuite/netsuite_internal_streamerror_message.html)

## UnknownError

---

Unknown error while invoking an operation on NetSuite.

Level : *Severe*

Log Message : *Unknown exception while invoking an operation on NetSuite. The exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-NETSUITE-MIB::ciC11iUnknownErrorEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.11.1.3

SNMP Trap Number : 4

## Variables

---

The UnknownError message contains the following variables:

Table 1. UnknownError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. Message

Textual description of the error.

- **Type :** String
- **SNMP Object Name :** CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID :** .1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [NetSuite Internal Notifications](#)

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## PeopleSoft Module

---

The PeopleSoft Module provides access to Oracle's PeopleSoft applications. This section contains details for the messages delivered from the PeopleSoft Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the PeopleSoft Module.

MIB Name : **CASTIRON-COMP-PEOPLESOFT-MIB**

MIB OID : **.1.3.6.1.4.1.13336.2.2.3.9**

The following table provides an alphabetical list of all notifications that can be issued by the PeopleSoft Module.

Table 1. Notifications issued by the PeopleSoft Module

Notification	Level	System	Description
ActivateFailureBlank	Severe	Orchestration	Activity could not be started as the specified name was blank.
ActivateSuccess	Info	Orchestration	Activity name specified was successfully activated.
ActivateUnsuccessful	Info	Orchestration	Error occurred while connecting to PeopleSoft system while activating activity. Activity activated, will try to establish connectivity at activity execute time.
ActivityFailure	Severe	Orchestration	Activity name specified failed to execute.
ActivitySuccessful	Info	Orchestration	Activity name specified executed successfully. The response output parameter was successfully generated.
ConfigURI	Info	Orchestration	Information regarding the URI and Port where the PeopleSoft Receive is listening.
ConnectionError	Severe	Orchestration	The peoplesoft operation failed because a connection to the server could not be established.
ConnectionPoolError	Warning	Orchestration	Error occurred while returning connection to the pool. Continuing the activity.
ConnectionRetry	Warning	Orchestration	The peoplesoft operation failed while trying to connect to the server. This will cause a retry.
CreateOnlyKeys	Warning	Orchestration	Only Create Keys was specified and no other properties were specified. Create might not have created the record.
DataLengthMore	Warning	Orchestration	The data set for specified field name has length exceeding the field length. This may cause loss of data.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
DeleteFail	Warning	Orchestration	The activity failed to delete specified item number.
GetNoReturn	Info	Orchestration	Activity name specified could not find any record.
ItemNumberBlank	Warning	Orchestration	Item number returned is empty.
MakeConnectError	Warning	Orchestration	Error occurred while creating the connection to destination.
MessageNameVersion	Severe	Orchestration	Message name and version got does not match that set in activity.
MissingLibraries	Severe	Orchestration	Peoplesoft activity is missing required libraries. Please install them from WMC.
NoOperationOnRecord	Warning	Orchestration	Activity could not find any record to do specified operation on it.
OutOfRange	Warning	Orchestration	Activity is trying to delete an item which is out of range.
PoolReleaseError	Warning	Orchestration	Error occurred while closing the connection pool.
ReceiveActivate	Severe	Orchestration	Error occurred while activating PeopleSoft Receive.
ReceiveDeActivate	Severe	Orchestration	Error occurred while deactivating PeopleSoft Receive.
ReceiveError	Severe	Orchestration	Peoplesoft receive activity was unsuccessful in receiving the request.
ReceiveGeneralError	Severe	Orchestration	Error occurred while sending the response from PeopleSoft Receive.
ReceiveIOError	Severe	Orchestration	IO Error occurred while processing request in PeopleSoft Receive.
ReceiveInfo	Info	Orchestration	Got document from specified host with specified name and version.
ReceiveProcess	Severe	Orchestration	Error occurred while processing request in PeopleSoft Receive.
ReceiveSuccessful	Info	Orchestration	Peoplesoft receive activity successfully received the request.
RunningInfo	Warning	Orchestration	Faced few warnings or errors while running Peoplesoft activity.
RunningMessages	Warning	Orchestration	Received messages while executing the activity.
SetupInfo	Warning	Orchestration	Faced few warnings or errors while setting up Peoplesoft activity.

- [PeopleSoft Connection Notifications](#)  
Provides a comprehensive list of connection notifications sent from the PeopleSoft Module.
- [PeopleSoft Operation Notifications](#)  
Provides a comprehensive list of operation notifications sent from the PeopleSoft Module.
- [PeopleSoft Internal Notifications](#)  
Provides a comprehensive list of internal notifications sent from the PeopleSoft Module.

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## PeopleSoft Connection Notifications

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Provides a comprehensive list of connection notifications sent from the PeopleSoft Module.

- [ActivateUnsuccessful](#)  
Error occurred while connecting to PeopleSoft system while activating activity. Activity activated, will try to establish

- connectivity at activity execute time.
- [ConnectionError](#)  
The peoplesoft operation failed because a connection to the server could not be established.
  - [ConnectionPoolError](#)  
Error occurred while returning connection to the pool. Continuing the activity.
  - [ConnectionRetry](#)  
The peoplesoft operation failed while trying to connect to the server. This will cause a retry.
  - [MakeConnectError](#)  
Error occurred while creating the connection to destination.
  - [PoolReleaseError](#)  
Error occurred while closing the connection pool.
  - [ReceiveActivate](#)  
Error occurred while activating PeopleSoft Receive.
  - [ReceiveDeActivate](#)  
Error occurred while deactivating PeopleSoft Receive.
  - [ReceiveIOError](#)  
IO Error occurred while processing request in PeopleSoft Receive.

**Parent topic:** [PeopleSoft Module](#)

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## ActivateUnsuccessful

---

Error occurred while connecting to PeopleSoft system while activating activity. Activity activated, will try to establish connectivity at activity execute time.

Level : *Info*

Log Message : *Error connecting to PeopleSoft system while activating activity {ActivityName}, error is: {Message}. Activity activated, will try to establish connectivity at activity execute time*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-PEOPLESOFT-MIB::ciC9cActivateUnsuccessfulEv1*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.9.1.1*

SNMP Trap Number : *1*

## Variables

---

The ActivateUnsuccessful message contains the following variables:

Table 1. ActivateUnsuccessful Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. ActivityName

The activity name which failed to connect to Peoplesoft system.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9cEv1ActivityName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.9.1.1.1.1.1

### 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [PeopleSoft Connection Notifications](#)

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## ConnectionError

The peoplesoft operation failed because a connection to the server could not be established.

Level : Severe

Log Message : *Unable to connect to PeopleSoft after {NumberOfRetryAttempts} attempts. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9cConnectionErrorEv2

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.9.1.1

SNMP Trap Number : 2

## Variables

---

The ConnectionError message contains the following variables:

Table 1. ConnectionError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. NumberOfRetryAttempts</b>  The total number of attempted retries.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9cEv2NumberOfRetryAttempts</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.9.1.1.1.2.1</li></ul>
<b>6. Message</b>  Textual description of the error.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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# ConnectionPoolError

---

Error occurred while returning connection to the pool. Continuing the activity.

Level : *Warning*

Log Message : *Error while returning connection to pool. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9cConnectionPoolErrorEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.1

SNMP Trap Number : 7

## Variables

---

The ConnectionPoolError message contains the following variables:

Table 1. ConnectionPoolError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

Parent topic: [PeopleSoft Connection Notifications](#)

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## ConnectionRetry

---

The peoplesoft operation failed while trying to connect to the server. This will cause a retry.

Level : *Warning*

Log Message : *Connection error while executing activity {ActivityName}. The error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s)*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOF-MIB::ciC9cConnectionRetryEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.1

SNMP Trap Number : 3

## Variables

---

The ConnectionRetry message contains the following variables:

Table 1. ConnectionRetry Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>

The activity name which failed to connect to Peoplesoft system.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9cEv3ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.1.1.3.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

## 7. RetryAttemptNumber

The current number of retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9cEv3RetryAttemptNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.1.1.3.3

## 8. TotalRetryAttempts

The specified number of attempts to connect to the server before stopping.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9cEv3TotalRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.1.1.3.4

## 9. IntervalForRetries

The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9cEv3IntervalForRetries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.1.1.3.5

**Parent topic:** [PeopleSoft Connection Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/peoplesoft/peoplesoft\\_connection\\_connectionretry\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/peoplesoft/peoplesoft_connection_connectionretry_message.html)

## MakeConnectError

---

Error occurred while creating the connection to destination.

Level : *Warning*

Log Message : *Error while creating the connection to destination. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9cMakeConnectErrorEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.1

SNMP Trap Number : 9

## Variables

---

The MakeConnectError message contains the following variables:

Table 1. MakeConnectError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/peoplesoft/peoplesoft\\_connection\\_makeconnecterror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/peoplesoft/peoplesoft_connection_makeconnecterror_message.html)

## PoolReleaseError

---

Error occurred while closing the connection pool.

Level : *Warning*

Log Message : *Error while closing the connection pool. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9cPoolReleaseErrorEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.1

SNMP Trap Number : 8

## Variables

---

The PoolReleaseError message contains the following variables:

Table 1. PoolReleaseError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## ReceiveActivate

Error occurred while activating PeopleSoft Receive.

Level : Severe

Log Message : *Error while activating PeopleSoft Receive. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOF-MIB::ciC9cReceiveActivateEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.1

SNMP Trap Number : 5

## Variables

The ReceiveActivate message contains the following variables:

Table 1. ReceiveActivate Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## ReceiveDeActivate

---

Error occurred while deactivating PeopleSoft Receive.

Level : *Severe*

Log Message : *Error while deactivating PeopleSoft Receive. Discarding error: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOF-MIB::ciC9cReceiveDeActivateEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.1

SNMP Trap Number : 6

## Variables

---

The ReceiveDeActivate message contains the following variables:

Table 1. ReceiveDeActivate Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## ReceiveIOError

---

IO Error occurred while processing request in PeopleSoft Receive.

Level : *Severe*

Log Message : *IO Error while processing request in PeopleSoft Receive. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOF-T-MIB::ciC9cReceiveIOErrorEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.1

SNMP Trap Number : 4

## Variables

---

The ReceiveIOError message contains the following variables:

Table 1. ReceiveIOError Message Variables

<b>1. SerialNumber</b> <p>The serial number of the appliance sending the trap.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b> <p>The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## PeopleSoft Operation Notifications

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Provides a comprehensive list of operation notifications sent from the PeopleSoft Module.

- [ActivateFailureBlank](#)  
Activity could not be started as the specified name was blank.
- [ActivateSuccess](#)  
Activity name specified was successfully activated.
- [ActivityFailure](#)  
Activity name specified failed to execute.
- [ActivitySuccessful](#)  
Activity name specified executed successfully. The response output parameter was successfully generated.
- [ConfigURI](#)  
Information regarding the URI and Port where the PeopleSoft Receive is listening.
- [CreateOnlyKeys](#)  
Only Create Keys was specified and no other properties were specified. Create might not have created the record.
- [DataLengthMore](#)  
The data set for specified field name has length exceeding the field length. This may cause loss of data.
- [DeleteFail](#)  
The activity failed to delete specified item number.
- [GetNoReturn](#)  
Activity name specified could not find any record.
- [ItemNumberBlank](#)  
Item number returned is empty.
- [MessageNameVersion](#)  
Message name and version got does not match that set in activity.
- [NoOperationOnRecord](#)  
Activity could not find any record to do specified operation on it.
- [OutOfRange](#)  
Activity is trying to delete an item which is out of range.
- [ReceiveError](#)  
Peoplesoft receive activity was unsuccessful in receiving the request.
- [ReceiveGeneralError](#)  
Error occurred while sending the response from PeopleSoft Receive.

- [ReceiveInfo](#)  
Got document from specified host with specified name and version.
- [ReceiveProcess](#)  
Error occurred while processing request in PeopleSoft Receive.
- [ReceiveSuccessful](#)  
Peoplesoft receive activity successfully received the request.
- [RunningInfo](#)  
Faced few warnings or errors while running Peoplesoft activity.
- [RunningMessages](#)  
Received messages while executing the activity.

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## ActivateFailureBlank

Activity could not be started as the specified name was blank.

Level : *Severe*

Log Message : *Activity {ActivityName} not started as {Name} is blank*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-PEOPLESOF-T-MIB::ciC9oActivateFailureBlankEv6*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.9.1.2*

SNMP Trap Number : *6*

## Variables

The ActivateFailureBlank message contains the following variables:

Table 1. ActivateFailureBlank Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap. <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification. <ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. ActivityName

The activity name which failed to activate.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv6ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.6.1

#### 6. Name

The name which was left blank causing activate to fail.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv6Name
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.6.2

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## ActivateSuccess

Activity name specified was successfully activated.

Level : *Info*

Log Message : *Activity {ActivityName} activated successfully*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oActivateSuccessEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.2

SNMP Trap Number : 5

## Variables

The ActivateSuccess message contains the following variables:

Table 1. ActivateSuccess Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. ActivityName

The activity name which was activated.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv5ActivityName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.9.1.2.1.5.1

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# ActivityFailure

Activity name specified failed to execute.

Level : Severe

Log Message : *Error while trying to execute activity {ActivityName}. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oActivityFailureEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.2

SNMP Trap Number : 4

## Variables

The ActivityFailure message contains the following variables:

Table 1. ActivityFailure Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>  The activity name which failed. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv4ActivityName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.4.1</li></ul>
<b>6. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/peoplesoft/peoplesoft\\_operation\\_activityfailure\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/peoplesoft/peoplesoft_operation_activityfailure_message.html)

# ActivitySuccessful

Activity name specified executed successfully. The response output parameter was successfully generated.

Level : *Info*

Log Message : *{ActivityName} executed and outputted response output parameter*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oActivitySuccessfulEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.2

SNMP Trap Number : 3

## Variables

The ActivitySuccessful message contains the following variables:

Table 1. ActivitySuccessful Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>  The activity name which succeeded. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv3ActivityName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.9.1.2.1.3.1</li></ul>

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## ConfigURI

---

Information regarding the URI and Port where the PeopleSoft Receive is listening.

Level : *Info*

Log Message : *PeopleSoft Receive listening for events on URI: |"{{UriValue}}| and port: |"{{PortValue}}|"*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oConfigURIEv19

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.2

SNMP Trap Number : 19

## Variables

---

The ConfigURI message contains the following variables:

Table 1. ConfigURI Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. UriValue</b>  The URI the server is listening on.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv19UriValue
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.19.1

## 6. PortValue

The port number the server is listening on.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv19PortValue
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.19.2

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## CreateOnlyKeys

Only Create Keys was specified and no other properties were specified. Create might not have created the record.

Level : *Warning*

Log Message : *Only Create Keys and no other properties specified. Create might not have created record.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oCreateOnlyKeysEv20

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.2

SNMP Trap Number : 20

## Variables

The CreateOnlyKeys message contains the following variables:

Table 1. CreateOnlyKeys Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## DataLengthMore

The data set for specified field name has length exceeding the field length. This may cause loss of data.

Level : *Warning*

Log Message : *Data being set for field named {FieldName} has length {DataLength}, where as field has length {FieldLength}. There may be loss of data.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oDataLengthMoreEv12

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.2

SNMP Trap Number : 12

## Variables

The DataLengthMore message contains the following variables:

Table 1. DataLengthMore Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. FieldName

Name of the field for which data has been set.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv12FieldName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.12.1

#### 6. DataLength

Length of the data which has been set for this field.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv12DataLength
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.12.2

#### 7. FieldLength

Length of the field for which data has been set.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv12FieldLength
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.12.3

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## DeleteFail

---

The activity failed to delete specified item number.

Level : *Warning*

Log Message : *Delete failed for item {ItemNumber}. Returning false*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oDeleteFailEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.2

## Variables

---

The DeleteFail message contains the following variables:

Table 1. DeleteFail Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. ItemNumber</b>
Item number which is out of range.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv10ItemNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.9.1.2.1.10.1</li> </ul>

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## GetNoReturn

---

Activity name specified could not find any record.

Level : *Info*

Log Message : Activity {ActivityName} could not find any record

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oGetNoReturnEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.2

SNMP Trap Number : 7

## Variables

---

The GetNoReturn message contains the following variables:

Table 1. GetNoReturn Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>  The activity name which could not find any record.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv7ActivityName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.9.1.2.1.7.1</li></ul>

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## ItemNumberBlank

Item number returned is empty.

Level : *Warning*

Log Message : *ITEM\_NO is empty. Returning false*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-PEOPLESOF-T-MIB::ciC9oItemNumberBlankEv11*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.9.1.2*

SNMP Trap Number : *11*

## Variables

The ItemNumberBlank message contains the following variables:

Table 1. ItemNumberBlank Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## MessageNameVersion

---

Message name and version got does not match that set in activity.

Level : *Severe*

Log Message : *Message name and version got does not match that set in activity. Set in activity: Message Name: {MessageName}, Message Version: {MessageVersion}. Actually Got: Message Name: {ActualMessageName}, Message Version: {ActualMessageVersion}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oMessageNameVersionEv14

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.2

SNMP Trap Number : 14

## Variables

---

The MessageNameVersion message contains the following variables:

Table 1. MessageNameVersion Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. MessageName</b>  The message name set in the activity. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv14MessageName</li></ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.14.1

## 6. MessageVersion

The message version set in the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv14MessageVersion
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.14.2

## 7. ActualMessageName

The message name received in the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv14ActualMessageName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.14.3

## 8. ActualMessageVersion

The message version received in the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv14ActualMessageVersion
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.14.4

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## NoOperationOnRecord

Activity could not find any record to do specified operation on it.

Level : *Warning*

Log Message : *Not able to get any record to do {OperationName} on. Returning false*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oNoOperationOnRecordEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.2

SNMP Trap Number : 8

## Variables

The NoOperationOnRecord message contains the following variables:

Table 1. NoOperationOnRecord Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String

- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. OperationName

Operation name that could not be specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv8OperationName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.9.1.2.1.8.1

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## OutOfRange

Activity is trying to delete an item which is out of range.

Level : *Warning*

Log Message : *Trying to delete item {ItemNumber} which is out of range. Returning false*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oOutOfRangeEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.2

SNMP Trap Number : 9

## Variables

The OutOfRange message contains the following variables:

Table 1. OutOfRange Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ItemNumber</b>  Item number which is out of range.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv9ItemNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.9.1.2.1.9.1</li></ul>

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## ReceiveError

---

Peoplesoft receive activity was unsuccessful in receiving the request.

Level : Severe

Log Message : *Error while receiving in PeopleSoft Receive. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oReceiveErrorEv16

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.2

SNMP Trap Number : 16

## Variables

---

The ReceiveError message contains the following variables:

Table 1. ReceiveError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## ReceiveGeneralError

---

Error occurred while sending the response from PeopleSoft Receive.

Level : *Severe*

Log Message : *Error while sending the response from PeopleSoft Receive. The error is: {Message}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oReceiveGeneralErrorEv17*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.9.1.2*

SNMP Trap Number : *17*

## Variables

The ReceiveGeneralError message contains the following variables:

Table 1. ReceiveGeneralError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## ReceiveInfo

---

Got document from specified host with specified name and version.

Level : *Info*

Log Message : Got document from {From} with Message Name: {MessageName}, Message Version: {MessageVersion}, Message Type: {MessageType} and Originating Time Stamp: {TimeStamp}

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOF-T-MIB::ciC9oReceiveInfoEv13

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.2

SNMP Trap Number : 13

## Variables

---

The ReceiveInfo message contains the following variables:

Table 1. ReceiveInfo Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. From</b>  The name of the host where receive activity got the document.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv13From
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.13.1

## 6. MessageName

The name of the message received by the activity

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv13MessageName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.13.2

## 7. MessageVersion

The version of the message received by the activity

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv13MessageVersion
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.13.3

## 8. MessageType

The type of the message received by the activity

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv13MessageType
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.13.4

## 9. TimeStamp

The originating time stamp of the message received by the activity

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv13TimeStamp
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.13.5

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## ReceiveProcess

Error occurred while processing request in PeopleSoft Receive.

Level : *Severe*

Log Message : *Error while processing request in PeopleSoft Receive. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oReceiveProcessEv18

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.2

SNMP Trap Number : 18

## Variables

---

The ReceiveProcess message contains the following variables:

Table 1. ReceiveProcess Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## ReceiveSuccessful

---

Peoplesoft receive activity successfully received the request.

Level : *Info*

Log Message : Successfully received request in PeopleSoft Receive and outputted output parameter response

System : Orchestration

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oReceiveSuccessfulEv15

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.2

SNMP Trap Number : 15

## Variables

---

The ReceiveSuccessful message contains the following variables:

Table 1. ReceiveSuccessful Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## RunningInfo

---

Faced few warnings or errors while running Peoplesoft activity.

Level : *Warning*

Log Message : Errors/Warning messages while executing activity: {Message}

System : Orchestration

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oRunningInfoEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.2

SNMP Trap Number : 2

## Variables

---

The RunningInfo message contains the following variables:

Table 1. RunningInfo Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

**Parent topic:** [PeopleSoft Operation Notifications](#)

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## RunningMessages

Received messages while executing the activity.

Level : *Warning*

Log Message : {*MessageType*} messages while executing activity: {*Message*}

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oRunningMessagesEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.2

SNMP Trap Number : 1

## Variables

The RunningMessages message contains the following variables:

Table 1. RunningMessages Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. MessageType</b>  Type of the message received. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv1MessageType</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.9.1.2.1.1.1</li></ul>
<b>6. Message</b>

The message received while executing the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv1Message
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.1.2

**Parent topic:** [PeopleSoft Operation Notifications](#)

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## PeopleSoft Internal Notifications

---

Provides a comprehensive list of internal notifications sent from the PeopleSoft Module.

- [MissingLibraries](#)  
Peoplesoft activity is missing required libraries. Please install them from WMC.
- [SetupInfo](#)  
Faced few warnings or errors while setting up Peoplesoft activity.

**Parent topic:** [PeopleSoft Module](#)

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## MissingLibraries

---

Peoplesoft activity is missing required libraries. Please install them from WMC.

Level : *Severe*

Log Message : *Missing classes when trying to start activity {ActivitName}. PeopleSoft library may need to be installed on the appliance.*  
Error is: {Message}

System : *Orchestration*

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9iMissingLibrariesEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.3

SNMP Trap Number : 1

## Variables

---

The MissingLibraries message contains the following variables:

Table 1. MissingLibraries Message Variables

1. SerialNumber
-----------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. ActivitName

The activity name which faced the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9iEv1ActivitName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.9.1.3.1.1.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [PeopleSoft Internal Notifications](#)

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## SetupInfo

---

Faced few warnings or errors while setting up Peoplesoft activity.

Level : *Warning*

Log Message : Warning/error messages while initializing {ActivityName}: {Message}

System : Orchestration

SNMP Name : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9iSetupInfoEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.9.1.3

SNMP Trap Number : 2

## Variables

The SetupInfo message contains the following variables:

Table 1. SetupInfo Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>  The activity name which faced the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9iEv2ActivityName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.9.1.3.1.2.1</li></ul>
<b>6. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

Parent topic: [PeopleSoft Internal Notifications](#)

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## Platform Module

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The Platform module provides notifications for elements generally not associated with projects or the runtime such as hardware, network, security, and resources. This section contains details for the messages delivered from the Platform Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the Platform Module.

MIB Name : *CASTIRON-COMP-PLATFORM-MIB*

MIB OID : .1.3.6.1.4.1.13336.2.2.3.23

The following table provides an alphabetical list of all notifications that can be issued by the Platform Module.

Table 1. Notifications issued by the Platform Module

Notification	Level	System	Description
AccessViolation	Info	Security	An authenticated user attempted to access a section of the Cast Iron product which would require additional authorization.
AuthFailure	Severe	Security	An attempt to authenticate with the appliance failed.
AuthLogOut	Info	Security	Event showing logging out of the user.
AuthSuccess	Info	Security	Attempt to authenticate with the appliance was successful.
DiskUsageCritOk	Info	Resources	Disk space usage is below the critical threshold.
DiskUsageCritical	Severe	Resources	Disk space usage has exceeded the critical threshold.
DiskUsageWarnOk	Info	Resources	Disk space usage is below the warning threshold.
DiskUsageWarning	Warning	Resources	Disk space usage has exceeded the warning threshold.
FanFailed	Severe	Hardware	A cooling fan is not operating correctly.
FanRestored	Info	Hardware	A cooling fan has resumed proper operation.
GrantRole	Info	Security	grant new role created.
GroupCreated	Info	Security	New group created.
GroupDeleted	Info	Security	Group deleted.
HighAvailFailover	Info	Hardware	The High Availability failover feature has taken effect; failover is complete.
HighAvailNotReady	Warning	Hardware	The HA system is not Highly Available.
HighAvailReady	Info	Hardware	The HA system is Highly Available.
HighAvailVersionError	Severe	Resources	The version of CIOS running on Standby does not match that running on Active.
IntrusionInform	Warning	Hardware	The appliance case has been opened.
IntrusionSevere	Severe	Hardware	The appliance case has been opened, which could result in system failure. Please contact Cast Iron Support.
LargeFileWarning	Warning	Resources	Large file taking up space on heavily loaded disk.
NetworkAutohost	Warning	Network	The Autohost feature has added the appliance's hostname and IP address to /etc/hosts.
NetworkInvalidRoute	Warning	Network	Could not add a requested network route.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
NetworkLinkDown	Warning	Network	The network link is down (offline).
NetworkLinkUp	Info	Network	The network link is up (online).
OrcmonArchiveError	Severe	Resources	Job log archive error.
OrcmonDatabaseError	Severe	Resources	Job log database error.
OrcmonDiskFull	Warning	Resources	Normal job log purging did not clear enough disk space. Purging half of all job logs in attempt to recover disk space.
OrcmonDiskFullNoPurge	Severe	Resources	Failed to purge any job logs to recover disk space.
OrcmonDiskTrigger	Info	Resources	Job log purge was initiated due to an available disk space trigger.
OrcmonExportCdError	Severe	Resources	Could not upload the job log archive file to the FTP server: Could not cd to the destination directory.
OrcmonExportError	Severe	Resources	Failure uploading archive file to FTP server.
OrcmonExportFTP	Info	Resources	Exporting archive file to FTP server.
OrcmonExportLocal	Info	Resources	Exporting job log data to a local archive file.
OrcmonExportStoreErr	Severe	Resources	Failure uploading archive file to FTP server: Could not store file.
OrcmonExportedJobs	Info	Resources	Exported jobs from the job log.
OrcmonPurgeByCompl	Info	Resources	Job log purge has been triggered based on the number of stored completed jobs.
OrcmonPurgeByErrored	Info	Resources	Job log purge has been triggered based on the number of stored errored jobs.
OrcmonPurgeByTime	Info	Resources	Job log purge has been triggered based on the amount of time since the last purge.
OrcmonPurgeByTimeNP	Info	Resources	Job log purge has been triggered based on the amount of time since collection began.
OrcmonPurgeFailed	Severe	Resources	Job log purge/archive failed.
PowerInterrupted	Warning	Hardware	A power module has reported that it does not have power.
PowerRestored	Info	Hardware	A power module has reported that power has been restored.
RaidArrayDegraded	Severe	Hardware	The RAID array on the appliance is degraded.
RaidArrayOffline	Severe	Hardware	The RAID array on the appliance is offline. Please contact Cast Iron Support.
RaidArrayOptimal	Info	Hardware	The RAID array on the appliance is optimal.
RaidDiskFailed	Severe	Hardware	A disk on the appliance has failed.
RaidDiskOnline	Info	Hardware	A disk on the appliance is now online and working properly.
RaidDiskRebuilding	Info	Hardware	A disk on the appliance is rebuilding.
RevokeRole	Info	Security	User role revoked.
SwapUsageCritOk	Info	Resources	Swap space usage is below the critical threshold.
SwapUsageCritical	Severe	Resources	Swap space usage has exceeded the critical threshold.
SwapUsageWarnOk	Info	Resources	Swap space usage is below the warning threshold.
SwapUsageWarning	Warning	Resources	Swap space usage has exceeded the warning threshold.
SystemInitComplete	Info	Hardware	The appliance is finished initializing after reboot.
SystemInitStarted	Info	Hardware	The appliance is initializing after being shut down or rebooted.
SystemRecoveryReboot	Warning	Hardware	Operational failure was detected. System is rebooting to recover.
SystemRecoveryRestart	Warning	Hardware	Operational failure was detected. System is restarting to recover.
TemperatureOutOfRange	Severe	Hardware	A monitored temperature within the appliance is too high, which could lead to future failures.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
TemperatureRestored	Info	Hardware	A temperature which was previously out of range (too hot) has come back into range
UpdateStatus	Info	Security	Update user status as active or inactive.
UpdateUser	Info	Security	Update display name of a user.
UpgradeComplete	Info	Hardware	The Cast Iron firmware was successfully upgraded.
UpgradeFailed	Severe	Hardware	The attempt to upgrade the Cast Iron firmware has failed.
UserCreated	Info	Security	New user created.
UserDeleted	Info	Security	User deleted.

- [Platform Hardware Notifications](#)  
Provides a comprehensive list of hardware notifications sent from the Platform Module.
- [Platform Network Notifications](#)  
Provides a comprehensive list of network notifications sent from the Platform Module.
- [Platform Resources Notifications](#)  
Provides a comprehensive list of resources notifications sent from the Platform Module.
- [Platform Security Notifications](#)  
Provides a comprehensive list of security notifications sent from the Platform Module.

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## Platform Hardware Notifications

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Provides a comprehensive list of hardware notifications sent from the Platform Module.

- [FanFailed](#)  
A cooling fan is not operating correctly.
- [FanRestored](#)  
A cooling fan has resumed proper operation.
- [HighAvailFailover](#)  
The High Availability failover feature has taken effect; failover is complete.
- [HighAvailNotReady](#)  
The HA system is not Highly Available.
- [HighAvailReady](#)  
The HA system is Highly Available.
- [IntrusionInform](#)  
The appliance case has been opened.
- [IntrusionSevere](#)  
The appliance case has been opened, which could result in system failure. Please contact Cast Iron Support.
- [PowerInterrupted](#)  
A power module has reported that it does not have power.
- [PowerRestored](#)  
A power module has reported that power has been restored.
- [RaidArrayDegraded](#)  
The RAID array on the appliance is degraded.
- [RaidArrayOffline](#)  
The RAID array on the appliance is offline. Please contact Cast Iron Support.
- [RaidArrayOptimal](#)  
The RAID array on the appliance is optimal.

- [RaidDiskFailed](#)  
A disk on the appliance has failed.
- [RaidDiskOnline](#)  
A disk on the appliance is now online and working properly.
- [RaidDiskRebuilding](#)  
A disk on the appliance is rebuilding.
- [SystemInitComplete](#)  
The appliance is finished initializing after reboot.
- [SystemInitStarted](#)  
The appliance is initializing after being shut down or rebooted.
- [SystemRecoveryReboot](#)  
Operational failure was detected. System is rebooting to recover.
- [SystemRecoveryRestart](#)  
Operational failure was detected. System is restarting to recover.
- [TemperatureOutOfRange](#)  
A monitored temperature within the appliance is too high, which could lead to future failures.
- [TemperatureRestored](#)  
A temperature which was previously out of range (too hot) has come back into range
- [UpgradeComplete](#)  
The Cast Iron firmware was successfully upgraded.
- [UpgradeFailed](#)  
The attempt to upgrade the Cast Iron firmware has failed.

**Parent topic:** [Platform Module](#)

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## FanFailed

A cooling fan is not operating correctly.

The most likely cause is that the fan has become disconnected or has failed. The recommended action is to 1) confirm the appliance with the corresponding AffectedAppliance serial number has an indicator LED (usually orange), 2) confirm the fan is properly connected, and 3) contact Cast Iron Support for assistance replacing the fan.

Level : *Severe*

Log Message : *Fan {FanID} on appliance {AffectedAppliance} is not functional. Current={CurrentSpeed} RPM. Minimum={MinimumSpeed} RPM.*

System : *Hardware*

SNMP Name : *CASTIRON-COMP-PLATFORM-MIB::ciC23hFanFailedEv1*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.23.1.4*

SNMP Trap Number : *1*

## Variables

The FanFailed message contains the following variables:

Table 1. FanFailed Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.
--

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. FanID

Identifier associated with the failed fan.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv1FanID
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.1.1

## 4. AffectedAppliance

Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.5

## 5. CurrentSpeed

Current speed of the fan in RPM.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv1CurrentSpeed
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.1.3

## 6. MinimumSpeed

Minimum speed of the fan in RPM.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv1MinimumSpeed
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.1.4

**Parent topic:** [Platform Hardware Notifications](#)

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## FanRestored

---

A cooling fan has resumed proper operation.

This notification may occur if a fan previously failed, but has since been repaired or reconnected.

Level : Info

Log Message : Fan {FanID} on appliance {AffectedAppliance} is functional. Current={CurrentSpeed} RPM. Minimum={MinimumSpeed} RPM.

System : Hardware

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hFanRestoredEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 2

## Variables

The FanRestored message contains the following variables:

Table 1. FanRestored Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. FanID</b>  Identifier associated with the failed fan. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv2FanID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.23.1.4.1.2.1</li></ul>
<b>4. AffectedAppliance</b>  Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.5</li></ul>
<b>5. CurrentSpeed</b>  Current speed of the fan in RPM. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv2CurrentSpeed</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.23.1.4.1.2.3</li></ul>
<b>6. MinimumSpeed</b>  Minimum speed of the fan in RPM. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv2MinimumSpeed</li></ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.2.4

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## HighAvailFailover

---

The High Availability failover feature has taken effect; failover is complete.

HA systems may "fail over" to the Standby appliance based on user request or based on the needs of the system. This notification is sent when the procedure has completed, regardless of the reason that the failover occurred.

Level : *Info*

Log Message : *The High Availability peer {AffectedAppliance} has successfully taken over.*

System : *Hardware*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hHighAvailFailoverEv15

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 15

## Variables

---

The HighAvailFailover message contains the following variables:

Table 1. HighAvailFailover Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap. <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification. <ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. AffectedAppliance</b>
Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer. <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.5</li> </ul>

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## HighAvailNotReady

---

The HA system is not Highly Available.

The Cast Iron HA pair is Highly Available when both Active and Standby appliances are fully operational. That is, when Standby is ready to take over for Active in case of a failure. This notification indicates that the Standby appliance is not currently synchronized with Active and therefore is not ready to take over if necessary.

Level : *Warning*

Log Message : *The HA system is not Highly Available. Active appliance is {AffectedAppliance}.*

System : *Hardware*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hHighAvailNotReadyEv23

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 23

## Variables

---

The HighAvailNotReady message contains the following variables:

Table 1. HighAvailNotReady Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. AffectedAppliance</b>  Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.5</li></ul>

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## HighAvailReady

---

The HA system is Highly Available.

The Cast Iron HA pair is Highly Available when both Active and Standby appliances are fully operational. That is, when Standby is ready to take over for Active in case of a failure. This notification indicates that the Standby appliance has synchronized with Active and is ready to take over if necessary.

Level : *Info*

Log Message : *The HA system is Highly Available with appliance {AffectedAppliance} acting as Active.*

System : *Hardware*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hHighAvailReadyEv22

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 22

## Variables

---

The HighAvailReady message contains the following variables:

Table 1. HighAvailReady Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. AffectedAppliance</b>  Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.5</li></ul>

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## IntrusionInform

---

The appliance case has been opened.

This applies to 7198-type appliances. The appliance has reported that its case was opened. This is an informational message; the intrusion sensor on this appliance does not affect the appliance's behavior. If this message occurs unexpectedly, you may wish to ensure the physical security of your appliance.

Level : *Warning*

Log Message : *The appliance {AffectedAppliance} has been opened.*

System : *Hardware*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hIntrusionInformEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 7

## Variables

---

The IntrusionInform message contains the following variables:

Table 1. IntrusionInform Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. AffectedAppliance</b>  Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.5</li></ul>

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## IntrusionSevere

---

The appliance case has been opened, which could result in system failure. Please contact Cast Iron Support.

This applies to 9235-type appliances. The appliance has reported that its case was opened. This is a serious situation requiring immediate attention to avoid downtime.

Level : *Severe*

Log Message : *The appliance {AffectedAppliance} has been opened, possibly leading to system failure. Please contact Cast Iron Support.*

System : *Hardware*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hIntrusionSevereEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 8

## Variables

---

The IntrusionSevere message contains the following variables:

Table 1. IntrusionSevere Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. AffectedAppliance</b>  Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.5</li></ul>

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## PowerInterrupted

---

A power module has reported that it does not have power.

The most likely cause is that a power cord has been unplugged. Please ensure both power cords are plugged in and that the power modules are operating normally.

Level : *Warning*

Log Message : *Power sensor {PowerID} on appliance {AffectedAppliance} has reported a loss of power.*

System : *Hardware*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hPowerInterruptedEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 5

## Variables

---

The PowerInterrupted message contains the following variables:

Table 1. PowerInterrupted Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. PowerID</b>  Identifier associated with the monitored power module.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv5PowerID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.23.1.4.1.5.1</li></ul>
<b>4. AffectedAppliance</b>  Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.5

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## PowerRestored

---

A power module has reported that power has been restored.

Level : *Info*

Log Message : Power sensor {*PowerID*} on appliance {*AffectedAppliance*} has reported power is restored.

System : *Hardware*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hPowerRestoredEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 6

## Variables

---

The PowerRestored message contains the following variables:

Table 1. PowerRestored Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

<b>2. Severity</b>
--------------------

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

<b>3. PowerID</b>
-------------------

Identifier associated with the monitored power module.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv6PowerID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.23.1.4.1.6.1

<b>4. AffectedAppliance</b>
-----------------------------

Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.5

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## RaidArrayDegraded

---

The RAID array on the appliance is degraded.

The appliance will continue operating, excepting any additional hard drive failures. The most likely cause of this notification is that one of the hard drives has failed or is rebuilding. If the disk is rebuilding, the RAID state should return to Optimal upon completion.

Level : *Severe*

Log Message : *The RAID array on appliance {AffectedAppliance} is degraded.*

System : *Hardware*

SNMP Name : *CASTIRON-COMP-PLATFORM-MIB::ciC23hRaidArrayDegradedEv10*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.23.1.4*

SNMP Trap Number : *10*

## Variables

---

The RaidArrayDegraded message contains the following variables:

Table 1. RaidArrayDegraded Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. AffectedAppliance</b>  Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the

Standby peer.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.5

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## RaidArrayOffline

---

The RAID array on the appliance is offline. Please contact Cast Iron Support.

The most likely cause is that both hard drives have failed. Please examine the

Level : *Severe*

Log Message : *The RAID array on appliance {AffectedAppliance} is offline. Please contact Cast Iron Support.*

System : *Hardware*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hRaidArrayOfflineEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 9

## Variables

---

The RaidArrayOffline message contains the following variables:

Table 1. RaidArrayOffline Message Variables

<b>1. SerialNumber</b> The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b> Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. AffectedAppliance</b> Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.5

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## RaidArrayOptimal

---

The RAID array on the appliance is optimal.

This event occurs when a disk which had previously failed or was rebuilding has been restored to proper operation.

Level : *Info*

Log Message : *The RAID array on appliance {AffectedAppliance} is optimal.*

System : *Hardware*

SNMP Name : *CASTIRON-COMP-PLATFORM-MIB::ciC23hRaidArrayOptimalEv11*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.23.1.4*

SNMP Trap Number : *11*

## Variables

---

The RaidArrayOptimal message contains the following variables:

Table 1. RaidArrayOptimal Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap. <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification. <ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. AffectedAppliance</b>
Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer. <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.5</li> </ul>

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## RaidDiskFailed

---

A disk on the appliance has failed.

Level : *Severe*

Log Message : *The RAID disk {DiskID} on appliance {AffectedAppliance} has failed.*

System : *Hardware*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hRaidDiskFailedEv12

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 12

## Variables

---

The RaidDiskFailed message contains the following variables:

Table 1. RaidDiskFailed Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. DiskID</b>  Identifier associated with the associated disk. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv12DiskID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.23.1.4.1.12.1</li></ul>
<b>4. AffectedAppliance</b>  Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.5

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## RaidDiskOnline

A disk on the appliance is now online and working properly.

This notification is typically sent when a disk has completed rebuilding and comes online, providing hardware redundancy.

Level : *Info*

Log Message : *The RAID disk {DiskID} on appliance {AffectedAppliance} is online.*

System : *Hardware*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hRaidDiskOnlineEv14

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 14

## Variables

The RaidDiskOnline message contains the following variables:

Table 1. RaidDiskOnline Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. DiskID</b>
Identifier associated with the associated disk.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv14DiskID</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.14.1</li> </ul>
<b>4. AffectedAppliance</b>

Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.5

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## RaidDiskRebuilding

---

A disk on the appliance is rebuilding.

A rebuilding disk actively copies data from the online disk. While in this state, system performance may be affected and the RAID Array state is usually "Degraded". System performance and the RAID Array state should return to normal when rebuilding has completed.

Level : *Info*

Log Message : *The RAID disk {DiskID} on appliance {AffectedAppliance} is rebuilding.*

System : *Hardware*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hRaidDiskRebuildingEv13

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 13

## Variables

---

The RaidDiskRebuilding message contains the following variables:

Table 1. RaidDiskRebuilding Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. DiskID</b>  Identifier associated with the associated disk.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv13DiskID
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.13.1

#### 4. AffectedAppliance

Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.5

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## SystemInitComplete

The appliance is finished initializing after reboot.

This message indicates that the appliance is fully operational after completing a reboot.

Level : *Info*

Log Message : *The appliance {AffectedAppliance} is finished initializing after reboot.*

System : *Hardware*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hSystemInitCompleteEv21

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 21

## Variables

The SystemInitComplete message contains the following variables:

Table 1. SystemInitComplete Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. AffectedAppliance

Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.5

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## SystemInitStarted

---

The appliance is initializing after being shut down or rebooted.

The appliance sends this message early in the bootup process. This message is intended as informational, indicating that a reboot has occurred.

Level : *Info*

Log Message : *The appliance {AffectedAppliance} is initializing after being shut down or rebooted.*

System : *Hardware*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hSystemInitStartedEv20

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 20

## Variables

---

The SystemInitStarted message contains the following variables:

Table 1. SystemInitStarted Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. AffectedAppliance

Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.5

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## SystemRecoveryReboot

---

Operational failure was detected. System is rebooting to recover.

The Cast Iron appliance continually monitors the health of components within the system. If a component has a momentary failure, the system may choose to reboot to recover from the situation. In the case of a recurring error, further reboots are not used until an hour has passed; instead the runtime is restarted. See the CLI command "system autoreboot" for information about controlling this behavior.

Level : *Warning*

Log Message : *Operational failure was detected on appliance {AffectedAppliance}. System is rebooting to recover. Uptime {Days} days, {Hours}:{Minutes}.*

System : *Hardware*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hSystemRecoveryRebootEv18

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 18

## Variables

---

The SystemRecoveryReboot message contains the following variables:

Table 1. SystemRecoveryReboot Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. AffectedAppliance</b>

Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.5

#### 4. Days

The number of days the system has been up since the last reboot.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv18Days
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.18.2

#### 5. Hours

The number of hours the system has been up since the last reboot.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv18Hours
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.18.3

#### 6. Minutes

The number of minutes the system has been up since the last reboot.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv18Minutes
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.18.4

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## SystemRecoveryRestart

---

Operational failure was detected. System is restarting to recover.

Level : *Warning*

Log Message : *Operational failure on appliance {AffectedAppliance} was detected. System is restarting to recover.*

System : *Hardware*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hSystemRecoveryRestartEv19

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 19

---

## Variables

The SystemRecoveryRestart message contains the following variables:

Table 1. SystemRecoveryRestart Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. AffectedAppliance</b>
Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.5</li> </ul>

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## TemperatureOutOfRange

---

A monitored temperature within the appliance is too high, which could lead to future failures.

Level : Severe

Log Message : Temperature {TempID} on appliance {AffectedAppliance} is out of range. Current={CurrentTemperature} deg C.  
Maximum={MaximumTemperature} deg C.

System : Hardware

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hTemperatureOutOfRangeEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 3

---

## Variables

The TemperatureOutOfRange message contains the following variables:

Table 1. TemperatureOutOfRange Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. TempID

Identifier associated with the monitored temperature.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv3TempID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.23.1.4.1.3.1

## 4. AffectedAppliance

Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.5

## 5. CurrentTemperature

Current temperature in degrees Celcius.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv3CurrentTemperature
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.23.1.4.1.3.3

## 6. MaximumTemperature

Maximum allowed temperature in degrees Celcius.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv3MaximumTemperature
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.23.1.4.1.3.4

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## TemperatureRestored

A temperature which was previously out of range (too hot) has come back into range

Level : *Info*

Log Message : Temperature {TempID} on appliance {AffectedAppliance} is restored. Current={CurrentTemperature} deg C. Maximum={MaximumTemperature} deg C.

System : Hardware

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hTemperatureRestoredEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 4

## Variables

The TemperatureRestored message contains the following variables:

Table 1. TemperatureRestored Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. TempID</b>  Identifier associated with the monitored temperature. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv4TempID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.23.1.4.1.4.1</li></ul>
<b>4. AffectedAppliance</b>  Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.5</li></ul>
<b>5. CurrentTemperature</b>  Current temperature in degrees Celcius. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv4CurrentTemperature</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.23.1.4.1.4.3</li></ul>
<b>6. MaximumTemperature</b>  Maximum allowed temperature in degrees Celcius. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv4MaximumTemperature</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.23.1.4.1.4.4</li></ul>

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## UpgradeComplete

---

The Cast Iron firmware was successfully upgraded.

Level : *Info*

Log Message : *Successfully upgraded Cast Iron firmware on appliance {AffectedAppliance} from version {OldVersion} to version {NewVersion}.*

System : *Hardware*

SNMP Name : *CASTIRON-COMP-PLATFORM-MIB::ciC23hUpgradeCompleteEv16*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.23.1.4*

SNMP Trap Number : *16*

## Variables

---

The UpgradeComplete message contains the following variables:

Table 1. UpgradeComplete Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. AffectedAppliance</b>  Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.5</li></ul>
<b>4. OldVersion</b>  The version of firmware which previously was operating on the Cast Iron appliance.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv16OldVersion
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.16.2

## 5. NewVersion

The version of firmware which is currently operating on the Cast Iron appliance.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv16NewVersion
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.16.3

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## UpgradeFailed

The attempt to upgrade the Cast Iron firmware has failed.

Level : *Severe*

Log Message : *Attempt to upgrade Cast Iron firmware on appliance {AffectedAppliance} from version {OldVersion} to version {NewVersion} failed: {Message}.*

System : *Hardware*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23hUpgradeFailedEv17

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.4

SNMP Trap Number : 17

## Variables

The UpgradeFailed message contains the following variables:

Table 1. UpgradeFailed Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. AffectedAppliance

Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.5

#### 4. OldVersion

The version of firmware which is currently operating on the Cast Iron appliance.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv17OldVersion
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.17.2

#### 5. NewVersion

The version of the attempted firmware upgrade.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv17NewVersion
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.17.3

#### 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [Platform Hardware Notifications](#)

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## Platform Network Notifications

---

Provides a comprehensive list of network notifications sent from the Platform Module.

- [NetworkAutohost](#)  
The Autohost feature has added the appliance's hostname and IP address to /etc/hosts.
- [NetworkInvalidRoute](#)  
Could not add a requested network route.
- [NetworkLinkDown](#)  
The network link is down (offline).
- [NetworkLinkUp](#)  
The network link is up (online).

**Parent topic:** [Platform Module](#)

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## NetworkAutohost

---

The Autohost feature has added the appliance's hostname and IP address to /etc/hosts.

The appliance requires the ability to resolve its own hostname to an IP address. The mapping is validated each time the appliance's network subsystem is started, and may be determined by DNS lookup or from an entry which was manually added via the CLI. If the appliance cannot determine the mapping this way, the autohost feature automatically adds a "best-guess" entry. While this automatic entry may work in many circumstances, it is not guaranteed to allow proper appliance operation in all environments. This notification may indicate a misconfiguration in the network. Therefore it is recommended that the user examine the appliance's network configuration and either enter the appliance's IP address and hostame to DNS, or manually add an entry to /etc/hosts by using the CLI command "net add etchost".

Level : *Warning*

Log Message : *Automatically added entry to /etc/hosts with hostname {Hostname} and IP address {IPAddress}*.

System : *Network*

SNMP Name : *CASTIRON-COMP-PLATFORM-MIB::ciC23nNetworkAutohostEv3*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.23.1.5*

SNMP Trap Number : 3

## Variables

---

The NetworkAutohost message contains the following variables:

Table 1. NetworkAutohost Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. Hostname</b>  Hostname of the appliance as added to /etc/hosts. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23nEv3Hostname</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.23.1.5.1.3.1</li></ul>
<b>4. IPAddress</b>  IP Address of the appliance as added to /etc/hosts. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>

- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23nEv3IPAddress
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.5.1.3.2

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## NetworkInvalidRoute

Could not add a requested network route.

One of the requested custom routes could not be added. Please check the network configuration, paying particular attention to the gateway IP address and the ethernet link.

Level : *Warning*

Log Message : *Could not add route to {DestinationIP} on {LinkName}.*

System : *Network*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23nNetworkInvalidRouteEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.5

SNMP Trap Number : 4

## Variables

The NetworkInvalidRoute message contains the following variables:

Table 1. NetworkInvalidRoute Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. DestinationIP</b>
IP address or netmask defining the requested route.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23nEv4DestinationIP</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.5.1.4.1</li> </ul>
<b>4. LinkName</b>

Name of the network link.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23nEv4LinkName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.5.1.4.2

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## NetworkLinkDown

---

The network link is down (offline).

The network link could be reported as down because the ethernet cable has been disconnected or the remote host or switch has disabled the port. To adjust or disable network link detection, see the CLI reference guide for the command "net set carrier".

Level : *Warning*

Log Message : *Network link {LinkName} on appliance {AffectedAppliance} is down (offline).*

System : *Network*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23nNetworkLinkDownEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.5

SNMP Trap Number : 2

## Variables

---

The NetworkLinkDown message contains the following variables:

Table 1. NetworkLinkDown Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. LinkName</b>
Name of the network link.
<ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23nEv2LinkName</li></ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.5.1.2.1

#### 4. AffectedAppliance

Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.5

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## NetworkLinkUp

The network link is up (online).

Level : *Info*

Log Message : *Network link {LinkName} on appliance {AffectedAppliance} is up (online).*

System : *Network*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23nNetworkLinkUpEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.5

SNMP Trap Number : 1

## Variables

The NetworkLinkUp message contains the following variables:

Table 1. NetworkLinkUp Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.1

### 3. LinkName

Name of the network link.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23nEv1LinkName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.5.1.1.1

#### 4. AffectedAppliance

Serial number of the affected appliance. In some cases this could be different than the serial number of the appliance sending a notification, particularly in the case of High Availability pairs where the Active peer could send a notification on behalf of the Standby peer.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.5

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## Platform Resources Notifications

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Provides a comprehensive list of resources notifications sent from the Platform Module.

- [DiskUsageCritOk](#)  
Disk space usage is below the critical threshold.
- [DiskUsageCritical](#)  
Disk space usage has exceeded the critical threshold.
- [DiskUsageWarnOk](#)  
Disk space usage is below the warning threshold.
- [DiskUsageWarning](#)  
Disk space usage has exceeded the warning threshold.
- [HighAvailVersionError](#)  
The version of CIOS running on Standby does not match that running on Active.
- [LargeFileWarning](#)  
Large file taking up space on heavily loaded disk.
- [OrcmonArchiveError](#)  
Job log archive error.
- [OrcmonDatabaseError](#)  
Job log database error.
- [OrcmonDiskFull](#)  
Normal job log purging did not clear enough disk space. Purging half of all job logs in attempt to recover disk space.
- [OrcmonDiskFullNoPurge](#)  
Failed to purge any job logs to recover disk space.
- [OrcmonDiskTrigger](#)  
Job log purge was initiated due to an available disk space trigger.
- [OrcmonExportCdError](#)  
Could not upload the job log archive file to the FTP server: Could not cd to the destination directory.
- [OrcmonExportError](#)  
Failure uploading archive file to FTP server.
- [OrcmonExportFTP](#)  
Exporting archive file to FTP server.
- [OrcmonExportLocal](#)  
Exporting job log data to a local archive file.
- [OrcmonExportStoreErr](#)  
Failure uploading archive file to FTP server: Could not store file.

- [OrcmonExportedJobs](#)  
Exported jobs from the job log.
- [OrcmonPurgeByCompl](#)  
Job log purge has been triggered based on the number of stored completed jobs.
- [OrcmonPurgeByErrored](#)  
Job log purge has been triggered based on the number of stored errored jobs.
- [OrcmonPurgeByTime](#)  
Job log purge has been triggered based on the amount of time since the last purge.
- [OrcmonPurgeByTimeNP](#)  
Job log purge has been triggered based on the amount of time since collection began.
- [OrcmonPurgeFailed](#)  
Job log purge/archive failed.
- [SwapUsageCritOk](#)  
Swap space usage is below the critical threshold.
- [SwapUsageCritical](#)  
Swap space usage has exceeded the critical threshold.
- [SwapUsageWarnOk](#)  
Swap space usage is below the warning threshold.
- [SwapUsageWarning](#)  
Swap space usage has exceeded the warning threshold.

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## DiskUsageCritOk

Disk space usage is below the critical threshold.

Level : *Info*

Log Message : *Disk space usage on {Disk} is now below the {Threshold}% critical threshold - current usage is {Usage}%*

System : *Resources*

SNMP Name : *CASTIRON-COMP-PLATFORM-MIB::ciC23rDiskUsageCritOkEv6*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.23.1.6*

SNMP Trap Number : *6*

## Variables

The DiskUsageCritOk message contains the following variables:

Table 1. DiskUsageCritOk Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. Disk

Name of the disk being monitored

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv6Disk
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.6.1

### 4. Threshold

Disk usage threshold

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv6Threshold
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.6.2

### 5. Usage

Current disk usage

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv6Usage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.6.3

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## DiskUsageCritical

---

Disk space usage has exceeded the critical threshold.

Level : Severe

Log Message : *Disk space usage on {Disk} has exceeded the {Threshold}% critical threshold - current usage is {Usage}%*

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rDiskUsageCriticalEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 8

## Variables

---

The DiskUsageCritical message contains the following variables:

Table 1. DiskUsageCritical Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. Disk

Name of the disk being monitored

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv8Disk
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.8.1

## 4. Threshold

Disk usage threshold

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv8Threshold
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.8.2

## 5. Usage

Current disk usage

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv8Usage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.8.3

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## DiskUsageWarnOk

---

Disk space usage is below the warning threshold.

Level : *Info*

Log Message : *Disk space usage on {Disk} is now below the {Threshold}% warning threshold - current usage is {Usage}%*

System : *Resources*

SNMP Name : *CASTIRON-COMP-PLATFORM-MIB::ciC23rDiskUsageWarnOkEv5*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.23.1.6*

## Variables

---

The DiskUsageWarnOk message contains the following variables:

Table 1. DiskUsageWarnOk Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. Disk</b>
Name of the disk being monitored
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv5Disk</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.5.1</li> </ul>
<b>4. Threshold</b>
Disk usage threshold
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv5Threshold</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.5.2</li> </ul>
<b>5. Usage</b>
Current disk usage
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv5Usage</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.5.3</li> </ul>

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## DiskUsageWarning

---

Disk space usage has exceeded the warning threshold.

Level : *Warning*

Log Message : *Disk space usage on {Disk} has exceeded the {Threshold}% warning threshold - current usage is {Usage}%*

System : *Resources*

SNMP Name : *CASTIRON-COMP-PLATFORM-MIB::ciC23rDiskUsageWarningEv7*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.23.1.6*

SNMP Trap Number : *7*

## Variables

---

The DiskUsageWarning message contains the following variables:

Table 1. DiskUsageWarning Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. Disk</b>  Name of the disk being monitored <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv7Disk</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.23.1.6.1.7.1</li></ul>
<b>4. Threshold</b>  Disk usage threshold <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv7Threshold</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.23.1.6.1.7.2</li></ul>
<b>5. Usage</b>  Current disk usage <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv7Usage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.23.1.6.1.7.3</li></ul>

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## HighAvailVersionError

---

The version of CIOS running on Standby does not match that running on Active.

Level : *Severe*

Log Message : *HA peers are running different versions of CIOS!*

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rHighAvailVersionErrorEv23

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 23

## Variables

---

The HighAvailVersionError message contains the following variables:

Table 1. HighAvailVersionError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

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## LargeFileWarning

---

Large file taking up space on heavily loaded disk.

Level : *Warning*

Log Message : *There is an unusually large file, {LargeFile}, of size {FileSize} MB.*

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rLargeFileWarningEv24

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 24

## Variables

---

The LargeFileWarning message contains the following variables:

Table 1. LargeFileWarning Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. LargeFile</b>  Large file on disk <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv24LargeFile</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.23.1.6.1.24.1</li></ul>
<b>4. FileSize</b>  Size of file in megabytes <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv24FileSize</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.23.1.6.1.24.2</li></ul>

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## OrcmonArchiveError

---

Job log archive error.

Level : *Severe*

Log Message : *An error occurred while archiving job logs. The error message is: {Message}*

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rOrcmonArchiveErrorEv25

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 25

## Variables

---

The OrcmonArchiveError message contains the following variables:

Table 1. OrcmonArchiveError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## OrcmonDatabaseError

---

Job log database error.

Level : Severe

Log Message : *An error occurred while executing a query on the job log database. The error message is: {Message}*

System : Resources

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rOrcmonDatabaseErrorEv26

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 26

## Variables

---

The OrcmonDatabaseError message contains the following variables:

Table 1. OrcmonDatabaseError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## OrcmonDiskFull

---

Normal job log purging did not clear enough disk space. Purging half of all job logs in attempt to recover disk space.

Level : *Warning*

Log Message : *Job log purge triggered. Available disk space is {DiskAvailPct}%. Specified trigger is {DiskAvailTrigger}%. Purging using properties failed to clear enough disk space. Purging half of all job logs in attempt to recover disk space.*

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rOrcmonDiskFullEv20

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 20

## Variables

---

The OrcmonDiskFull message contains the following variables:

Table 1. OrcmonDiskFull Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>
---

- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. DiskAvailPct

Percentage of disk space which is currently available.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv20DiskAvailPct
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.20.1

## 4. DiskAvailTrigger

Percentage of available disk space which triggers a purge.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv20DiskAvailTrigger
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.20.2

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## OrcmonDiskFullNoPurge

Failed to purge any job logs to recover disk space.

Level : *Severe*

Log Message : Failed to purge any job logs to recover disk space. Available disk space is {DiskAvailPct} %.

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rOrcmonDiskFullNoPurgeEv21

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 21

## Variables

The OrcmonDiskFullNoPurge message contains the following variables:

Table 1. OrcmonDiskFullNoPurge Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. DiskAvailPct

Percentage of disk space which is currently available.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv21DiskAvailPct
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.21.1

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## OrcmonDiskTrigger

Job log purge was initiated due to an available disk space trigger.

Level : *Info*

Log Message : *Job log purge triggered. Available disk space is {DiskAvailPct}%. Specified trigger is {DiskAvailTrigger}%.*

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rOrcmonDiskTriggerEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 9

## Variables

The OrcmonDiskTrigger message contains the following variables:

Table 1. OrcmonDiskTrigger Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. DiskAvailPct

Percentage of disk space which is currently available.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv9DiskAvailPct
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.9.1

### 4. DiskAvailTrigger

Percentage of available disk space which triggers a purge.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv9DiskAvailTrigger
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.9.2

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## OrcmonExportCdError

Could not upload the job log archive file to the FTP server: Could not cd to the destination directory.

Level : *Severe*

Log Message : *Failure uploading archive file to FTP server: Could not cd to directory "{Directory}"*.

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rOrcmonExportCdErrorEv17

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 17

## Variables

The OrcmonExportCdError message contains the following variables:

Table 1. OrcmonExportCdError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. Directory

Directory on the FTP server where the file would be stored

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv17Directory
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.17.1

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## OrcmonExportError

Failure uploading archive file to FTP server.

Level : *Severe*

Log Message : *Failure uploading archive file to FTP server: {Message}*

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rOrcmonExportErrorEv19

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 19

## Variables

The OrcmonExportError message contains the following variables:

Table 1. OrcmonExportError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## OrcmonExportFTP

Exporting archive file to FTP server.

Level : *Info*

Log Message : *Exporting archive file to FTP server {Host}:{Port}. Placing file "{Filename}" in directory "{Directory}"*.

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rOrcmonExportFTPEv16

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 16

## Variables

The OrcmonExportFTP message contains the following variables:

Table 1. OrcmonExportFTP Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. Host</b>
Remote FTP host
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv16Host</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.16.1</li> </ul>
<b>4. Port</b>
TCP Port on the remote FTP host

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv16Port
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.16.2

## 5. Filename

Name of the file being exported

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv16Filename
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.16.3

## 6. Directory

Directory on the FTP server where the file is stored

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv16Directory
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.16.4

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## OrcmonExportLocal

Exporting job log data to a local archive file.

Level : *Info*

Log Message : *Exporting job log data to local archive file "{Filename}"*.

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rOrcmonExportLocalEv15

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 15

## Variables

The OrcmonExportLocal message contains the following variables:

Table 1. OrcmonExportLocal Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. Filename

Name of the local archive file.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv15Filename
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.15.1

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## OrcmonExportStoreErr

Failure uploading archive file to FTP server: Could not store file.

Level : *Severe*

Log Message : *Failure uploading archive file to FTP server: Could not store file.*

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rOrcmonExportStoreErrEv18

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 18

## Variables

The OrcmonExportStoreErr message contains the following variables:

Table 1. OrcmonExportStoreErr Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

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## OrcmonExportedJobs

---

Exported jobs from the job log.

Level : *Info*

Log Message : *Job log purged {NumExported} jobs.*

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rOrcmonExportedJobsEv14

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 14

## Variables

---

The OrcmonExportedJobs message contains the following variables:

Table 1. OrcmonExportedJobs Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. NumExported</b>  Number of jobs exported. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv14NumExported</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.14.1</li></ul>

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## OrcmonPurgeByCompl

Job log purge has been triggered based on the number of stored completed jobs.

Level : *Info*

Log Message : *Job log purge triggered. There are {NumCompleted} completed jobs. Completed jobs threshold is {Threshold}.*

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rOrcmonPurgeByComplEv12

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 12

## Variables

The OrcmonPurgeByCompl message contains the following variables:

Table 1. OrcmonPurgeByCompl Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. NumCompleted</b>  Number of completed jobs currently stored in the job log. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv12NumCompleted</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.23.1.6.1.12.1</li></ul>
<b>4. Threshold</b>  Number of stored completed jobs which triggered a job purge. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv12Threshold</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.23.1.6.1.12.2</li></ul>

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## OrcmonPurgeByErrored

Job log purge has been triggered based on the number of stored errored jobs.

Level : *Info*

Log Message : *Job log purge triggered. There are {NumErrored} errored jobs. Errored jobs threshold is {Threshold}.*

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rOrcmonPurgeByErroredEv13

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 13

## Variables

The OrcmonPurgeByErrored message contains the following variables:

Table 1. OrcmonPurgeByErrored Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. NumErrored</b>  Number of errored jobs currently stored in the job log. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv13NumErrored</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.13.1</li></ul>
<b>4. Threshold</b>  Number of stored errored jobs which triggered a job purge. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv13Threshold</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.13.2</li></ul>

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## OrcmonPurgeByTime

---

Job log purge has been triggered based on the amount of time since the last purge.

Level : *Info*

Log Message : *Job log purge triggered. Time since last purge exceeded {PurgeTime}.*

System : *Resources*

SNMP Name : *CASTIRON-COMP-PLATFORM-MIB::ciC23rOrcmonPurgeByTimeEv11*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.23.1.6*

SNMP Trap Number : *11*

## Variables

---

The OrcmonPurgeByTime message contains the following variables:

Table 1. OrcmonPurgeByTime Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. PurgeTime</b>  Scheduled time for the purge. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv11PurgeTime</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.11.1</li></ul>

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## OrcmonPurgeByTimeNP

---

Job log purge has been triggered based on the amount of time since collection began.

Level : *Info*

Log Message : *Job log purge triggered. Exceeded maximum duration since last purge.*

System : *Resources*

SNMP Name : *CASTIRON-COMP-PLATFORM-MIB::ciC23rOrcmonPurgeByTimeNPv10*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.23.1.6*

SNMP Trap Number : *10*

## Variables

---

The OrcmonPurgeByTimeNP message contains the following variables:

Table 1. OrcmonPurgeByTimeNP Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>

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## OrcmonPurgeFailed

---

Job log purge/archive failed.

Level : *Severe*

Log Message : *Job log purge/archive failed: {Message}.*

System : *Resources*

SNMP Name : *CASTIRON-COMP-PLATFORM-MIB::ciC23rOrcmonPurgeFailedEv22*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.23.1.6*

SNMP Trap Number : *22*

## Variables

---

The OrcmonPurgeFailed message contains the following variables:

Table 1. OrcmonPurgeFailed Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## SwapUsageCritOk

---

Swap space usage is below the critical threshold.

Level : *Info*

Log Message : *Swap space usage is now below the {Threshold}% critical threshold - current usage is {Usage}%*

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rSwapUsageCritOkEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 2

## Variables

---

The SwapUsageCritOk message contains the following variables:

Table 1. SwapUsageCritOk Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.
--

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. Threshold

Swap usage threshold

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv2Threshold
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.2.1

## 4. Usage

Current swap usage

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv2Usage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.2.2

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## SwapUsageCritical

Swap space usage has exceeded the critical threshold.

Level : *Severe*

Log Message : *Swap space usage has exceeded the {Threshold}% critical threshold - current usage is {Usage}%*

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rSwapUsageCriticalEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 4

## Variables

The SwapUsageCritical message contains the following variables:

Table 1. SwapUsageCritical Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. Threshold

Swap usage threshold

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv4Threshold
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.4.1

## 4. Usage

Current swap usage

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv4Usage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.4.2

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## SwapUsageWarnOk

Swap space usage is below the warning threshold.

Level : *Info*

Log Message : *Swap space usage is now below the {Threshold}% warning threshold - current usage is {Usage}%*

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rSwapUsageWarnOkEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 1

## Variables

The SwapUsageWarnOk message contains the following variables:

Table 1. SwapUsageWarnOk Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. Threshold

Swap usage threshold

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv1Threshold
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.1.1

## 4. Usage

Current swap usage

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv1Usage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.1.2

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## SwapUsageWarning

Swap space usage has exceeded the warning threshold.

Level : *Warning*

Log Message : *Swap space usage has exceeded the {Threshold}% warning threshold - current usage is {Usage}%*

System : *Resources*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23rSwapUsageWarningEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.6

SNMP Trap Number : 3

## Variables

The SwapUsageWarning message contains the following variables:

Table 1. SwapUsageWarning Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. Threshold

Swap usage threshold

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv3Threshold
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.3.1

## 4. Usage

Current swap usage

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv3Usage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.3.2

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# Platform Security Notifications

Provides a comprehensive list of security notifications sent from the Platform Module.

- **AccessViolation**  
An authenticated user attempted to access a section of the Cast Iron product which would require additional authorization.
- **AuthFailure**  
An attempt to authenticate with the appliance failed.
- **AuthLogOut**  
Event showing logging out of the user.
- **AuthSuccess**  
Attempt to authenticate with the appliance was successful.
- **GrantRole**  
grant new role created.
- **GroupCreated**  
New group created.
- **GroupDeleted**  
Group deleted.
- **RevokeRole**  
User role revoked.
- **UpdateStatus**  
Update user status as active or inactive.

- **UpdateUser**  
Update display name of a user.
- **UserCreated**  
New user created.
- **UserDeleted**  
User deleted.

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## AccessViolation

An authenticated user attempted to access a section of the Cast Iron product which would require additional authorization.

Level : *Info*

Log Message : *Access Violation by user: {Username}. Target: {Target}. Action Performed: {Action}.*

System : *Security*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23sAccessViolationEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.7

SNMP Trap Number : 2

## Variables

The AccessViolation message contains the following variables:

Table 1. AccessViolation Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. Username</b>  The name of the user who failed to log in.  <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv2Username</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.2.1</li> </ul>

#### 4. Target

Section of the product which requires additional authorization.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv2Target
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.2.2

#### 5. Action

Action the user attempted to perform.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv2Action
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.2.3

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## AuthFailure

---

An attempt to authenticate with the appliance failed.

Level : *Severe*

Log Message : *Authentication failure for user {Username}, from host {Host}.*

System : *Security*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23sAuthFailureEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.7

SNMP Trap Number : 1

## Variables

---

The AuthFailure message contains the following variables:

Table 1. AuthFailure Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. Username

The name of the user who failed to log in.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv1Username
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.1.1

### 4. Host

The name of the host the user attempted to log in from.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv1Host
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.1.2

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## AuthLogOut

---

Event showing logging out of the user.

Level : *Info*

Log Message : *User {UserName} with session id {SessionId} logged out successfully.*

System : *Security*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23sAuthLogOutEv12

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.7

SNMP Trap Number : 12

## Variables

---

The AuthLogOut message contains the following variables:

Table 1. AuthLogOut Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. UserName

Name of the user.

- **Type :** String
- **SNMP Object Name :** CASTIRON-COMP-PLATFORM-MIB::ciC23sEv12UserName
- **SNMP OID :** .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.12.1

### 4. SessionId

Session ID of the user logging out.

- **Type :** String
- **SNMP Object Name :** CASTIRON-COMP-PLATFORM-MIB::ciC23sEv12SessionId
- **SNMP OID :** .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.12.2

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## AuthSuccess

---

Attempt to authenticate with the appliance was successful.

Level : *Info*

Log Message : *Authentication success for user {UserName}, from host {Host} with session id {SessionId}.*

System : *Security*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23sAuthSuccessEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.7

SNMP Trap Number : 3

## Variables

---

The AuthSuccess message contains the following variables:

Table 1. AuthSuccess Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type :** String
- **SNMP Object Name :** CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID :** .1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type :** Integer
- **SNMP Object Name :** CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID :** .1.3.6.1.4.1.13336.2.2.1.2.1

### 3. UserName

Name of the user who logged on successfully.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv3UserName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.3.1

### 4. Host

The name of the host the user attempted to log in from.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv3Host
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.3.2

### 5. SessionId

The Session ID of the user who logged on.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv3SessionId
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.3.3

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## GrantRole

---

grant new role created.

Level : *Info*

Log Message : *User {UserName} has been granted role of {GroupName}*.

System : *Security*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23sGrantRoleEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.7

SNMP Trap Number : 9

## Variables

---

The GrantRole message contains the following variables:

Table 1. GrantRole Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. UserName

Name of the user whose role is granted.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv9UserName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.9.1

## 4. GroupName

Group name granted to the user.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv9GroupName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.9.2

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## GroupCreated

---

New group created.

Level : *Info*

Log Message : *New Group {GroupName} has been created with id {Id}.*

System : *Security*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23sGroupCreatedEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.7

SNMP Trap Number : 6

## Variables

---

The GroupCreated message contains the following variables:

Table 1. GroupCreated Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber

- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. GroupName

Name of group newly created.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv6GroupName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.6.1

## 4. Id

The ID of the group created newly.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv6Id
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.6.2

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## GroupDeleted

Group deleted.

Level : *Info*

Log Message : *Group {UserName} has been deleted.*

System : *Security*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23sGroupDeletedEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.7

SNMP Trap Number : 7

## Variables

The GroupDeleted message contains the following variables:

Table 1. GroupDeleted Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String

- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. UserName

Name of the group deleted.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv7UserName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.7.1

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## RevokeRole

User role revoked.

Level : *Info*

Log Message : *User {UserName} has been revoked of the role {GroupName}.*

System : *Security*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23sRevokeRoleEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.7

SNMP Trap Number : 8

## Variables

The RevokeRole message contains the following variables:

Table 1. RevokeRole Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. UserName

Name of the user whose role is revoked.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv8UserName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.8.1

### 4. GroupName

Group name revoked for the user.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv8GroupName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.8.2

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## UpdateStatus

Update user status as active or inactive.

Level : *Info*

Log Message : *User {UserName} status has been changed from {OldValue} to {NewValue}.*

System : *Security*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23sUpdateStatusEv11

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.7

SNMP Trap Number : 11

## Variables

The UpdateStatus message contains the following variables:

Table 1. UpdateStatus Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. UserName

Name and Status of the user.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv11UserName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.11.1

### 4. OldValue

Old value of status.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv11OldValue
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.11.2

### 5. NewValue

New value of status

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv11newValue
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.11.3

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## UpdateUser

Update display name of a user.

Level : *Info*

Log Message : User {*UserName*} displayName has been changed from {*OldValue*} to {*NewValue*}.

System : *Security*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23sUpdateUserEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.7

SNMP Trap Number : 10

## Variables

The UpdateUser message contains the following variables:

Table 1. UpdateUser Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. UserName

Name of the user whose status is changed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv10UserName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.10.1

## 4. OldValue

Old value of display name.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv10OldValue
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.10.2

## 5. NewValue

New value of display name.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv10newValue
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.10.3

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## UserCreated

New user created.

Level : *Info*

Log Message : *New User {UserName} has been created with id {Id}.*

System : *Security*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23sUserCreatedEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.7

SNMP Trap Number : 4

## Variables

---

The UserCreated message contains the following variables:

Table 1. UserCreated Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. UserName</b>  Name of the user newly created.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv4UserName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.23.1.7.1.4.1</li></ul>
<b>4. Id</b>  The ID of the user that was newly created.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv4Id</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.23.1.7.1.4.2</li></ul>

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## UserDeleted

---

User deleted.

Level : *Info*

Log Message : *User {UserName} has been deleted.*

System : *Security*

SNMP Name : CASTIRON-COMP-PLATFORM-MIB::ciC23sUserDeletedEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.23.1.7

SNMP Trap Number : 5

## Variables

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The UserDeleted message contains the following variables:

Table 1. UserDeleted Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. UserName</b>  Name of the user deleted.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv5UserName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.23.1.7.1.5.1</li></ul>

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## SAP Module

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The SAP Module provides activities to access SAP servers. This section contains details for the messages delivered from the SAP Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the SAP Module.

MIB Name : CASTIRON-COMP-SAP-MIB

MIB OID : .1.3.6.1.4.1.13336.2.2.3.19

The following table provides an alphabetical list of all notifications that can be issued by the SAP Module.

Table 1. Notifications issued by the SAP Module

Notification	Level	System	Description
<a href="#">AddingServerInfo</a>	Info	Orchestration	Adding server gateway.
<a href="#">BAPIActivationError</a>	Severe	Orchestration	Error occurred while activating the BAPI activity.
<a href="#">BAPIParseError</a>	Severe	Orchestration	Error occurred while parsing schema for the specified BAPI.
<a href="#">BAPIReturnError</a>	Severe	Orchestration	Error returned by specified BAPI in the type field.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
CompleteFunctionExec	Info	Orchestration	This is the name of the function which is executed by the BAPI or RFC activity
ConnectError	Severe	Orchestration	The SAP operation failed because a connection to the server could not be established.
ConnectRetry	Warning	Orchestration	The SAP operation failed while trying to connect to the server. This will cause a retry.
ConnectionPoolError	Severe	Orchestration	Connection Pool returned null connection.
CreateTID	Info	Orchestration	Creating a specified TID in the TID manager.
CreateTrcDirFailed	Warning	Orchestration	Exception while setting the log directory for SAP trace files. The trace files generated by sap will be created on default location.
FuncRetStructNotFound	Info	Orchestration	This is to report that activity is not able to find the return structure for the function
FunctionLookup	Info	Orchestration	This is marking the start of finding the meta data of the BAPI or RFC activity in the SAP Repository
FunctionLookupComp	Info	Orchestration	This is marking the completion of finding the meta data of the BAPI or RFC activity in the SAP Repository
GatewayCommWarning	Warning	Orchestration	Error occurred, while communicating to SAP Gateway.
GatewayRegisterError	Info	Orchestration	Server gateway specified already exists.
GatewayRemoveInfo	Info	Orchestration	Removing server gateway.
IDOCExtensionError	Severe	Orchestration	IDOC contains more than one type of IDOC extension type.
IDOCSentInfo	Info	Orchestration	IDOC with specified TID was sent to SAP.
IDOCTypeError	Severe	Orchestration	Received IDOC contains more than one type of IDOC type.
InitializationError	Severe	Orchestration	Error occurred while initializing the send IDOC activity.
InvalidRFCName	Severe	Orchestration	Unable to find specified RFC name.
InvalidTIDerror	Severe	Orchestration	TID was not set in the task context.
ListenerInstanceInfo	Info	Orchestration	SAP listener instance was started for SAP gateway.
ListenerStartInfo	Info	Orchestration	SAP listener started again for specified host.
ListenerStopWarning	Warning	Orchestration	Error occurred while stopping the listener for specified host.
NoHandlerError	Warning	Orchestration	Received an IDOC for specified IDOC type and no activity was registered to process it. Ignoring the IDOC.
NoSegmentWarning	Warning	Orchestration	The specified IDOC number contains no data segment.
NonReturnStruct	Severe	Orchestration	No return structure returned by the specified BAPI.
ParseError	Severe	Orchestration	Error occurred while parsing schema for the RFC.
PoolAddInfo	Info	Orchestration	Adding Connection pool with the specified name.
PoolExistInfo	Info	Orchestration	Connection pool with specified name already exists.
ProcessDocError	Severe	Orchestration	Error occurred while processing the IDOC.
RFCActivationError	Severe	Orchestration	Error occurred while activating the RFC activity.
ReceiveTIDNotFound	Severe	Orchestration	Specified TID was not found in TID manager.
RemoveInfo	Info	Orchestration	Removing connection pool with specified name.
RollbackWarning	Warning	Orchestration	Error occurred while rolling back the transaction. Ignoring and continuing the activity.
SAPActivityError	Severe	Orchestration	Error occurred while processing SAP activity.
SAPValidationError	Severe	Orchestration	Input data was not valid for specified RFC. The items specified were invalid.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
SapLibNotFound	Severe	Orchestration	Sap activity is not able to activate because the sap provided libraries are not installed.
SendIDOCActivation	Severe	Orchestration	Error occurred while activating the Send IDOC activity.
SendIDOCCreateInfo	Info	Orchestration	Created the specified TID for starting a transaction in send IDOC activity.
SendIDOCValidation	Severe	Orchestration	Input data was not valid for IDOC. The specified item(s) were invalid.
SerializingError	Severe	Orchestration	Error occurred while creating IDOC from input parameter.
StartFunctionExec	Info	Orchestration	This is the name of the function which is going to be executed by the BAPI or RFC activity
StartWarning	Info	Orchestration	Error occurred while starting the server.
TIDCheck	Info	Orchestration	SAP TIP check for specified ID is requested by SAP.
TIDCommit	Info	Orchestration	SAP TID has been committed by SAP.
TIDCommitUnknown	Severe	Orchestration	SAP attempting to confirm an unknown or uncommitted TID.
TIDCommittedInfo	Info	Orchestration	Specified TID was committed to SAP.
TIDCommittingInfo	Info	Orchestration	Committing TID to SAP.
TIDConfirmed	Info	Orchestration	SAP TID has been confirmed and deleted from the TID manager.
TIDRollback	Info	Orchestration	SAP TID has been rolled back.
TIDSentInfo	Info	Orchestration	Sending the IDOC with specified TID to SAP.
TIDUnknown	Severe	Orchestration	SAP has requested rollback for unknown TID.
TransactionalError	Severe	Orchestration	Unable to find the BAPI transaction RFCs.
UnicodeGateway	Info	Orchestration	The unicode instance property is set through JCONSOLE.
ValidationError	Severe	Orchestration	Error occurred while validating the input data.
ValidationInfo	Info	Orchestration	Validation is on/off for the specified field value.

- [SAP Connection Notifications](#)  
Provides a comprehensive list of connection notifications sent from the SAP Module.
- [SAP Operation Notifications](#)  
Provides a comprehensive list of operation notifications sent from the SAP Module.
- [SAP Internal Notifications](#)  
Provides a comprehensive list of internal notifications sent from the SAP Module.

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## SAP Connection Notifications

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Provides a comprehensive list of connection notifications sent from the SAP Module.

- [ConnectError](#)  
The SAP operation failed because a connection to the server could not be established.
- [ConnectRetry](#)  
The SAP operation failed while trying to connect to the server. This will cause a retry.

- [PoolAddInfo](#)  
Adding Connection pool with the specified name.
- [PoolExistInfo](#)  
Connection pool with specified name already exists.
- [RemoveInfo](#)  
Removing connection pool with specified name.

**Parent topic:** [SAP Module](#)

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## ConnectError

The SAP operation failed because a connection to the server could not be established.

Level : *Severe*

Log Message : *Unable to connect to the SAP server after {NumberOfRetryAttempts} attempts. Error is: Error Group {ErrorGroup}, Error Key {ErrorKey}, Error Message {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19cConnectErrorEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.1

SNMP Trap Number : 1

## Variables

The ConnectError message contains the following variables:

Table 1. ConnectError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap. <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification. <ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>

#### **4. Orchestration**

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### **5. NumberOfRetryAttempts**

The total number of attempted retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19cEv1NumberOfRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.1.1.1.1

#### **6. ErrorGroup**

The group mentioned in the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19cEv1ErrorGroup
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.1.1.1.2

#### **7. ErrorKey**

The key mentioned in the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19cEv1ErrorKey
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.1.1.1.3

#### **8. Message**

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [SAP Connection Notifications](#)

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## **ConnectRetry**

---

The SAP operation failed while trying to connect to the server. This will cause a retry.

Level : *Warning*

Log Message : *Unable to connect to the SAP server. Error is: Error Group: {ErrorGroup} Error Key {ErrorKey} Error Message {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {RetryAttemptNumber} second(s).*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19cConnectRetryEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.1

SNMP Trap Number : 2

## Variables

The ConnectRetry message contains the following variables:

Table 1. ConnectRetry Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ErrorGroup</b>  The group mentioned in the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19cEv2ErrorGroup</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.19.1.1.1.2.1</li></ul>
<b>6. ErrorKey</b>  The key mentioned in the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19cEv2ErrorKey</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.19.1.1.1.2.2</li></ul>
<b>7. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

## 8. RetryAttemptNumber

The current number of retries.

- **Type :** Integer
- **SNMP Object Name :** CASTIRON-COMP-SAP-MIB::ciC19cEv2RetryAttemptNumber
- **SNMP OID :** .1.3.6.1.4.1.13336.2.2.3.19.1.1.1.2.4

## 9. TotalRetryAttempts

The specified number of attempts to connect to the server before stopping.

- **Type :** Integer
- **SNMP Object Name :** CASTIRON-COMP-SAP-MIB::ciC19cEv2TotalRetryAttempts
- **SNMP OID :** .1.3.6.1.4.1.13336.2.2.3.19.1.1.1.2.5

## 10. IntervalForRetries

The specified time interval between retries.

- **Type :** Integer
- **SNMP Object Name :** CASTIRON-COMP-SAP-MIB::ciC19cEv2IntervalForRetries
- **SNMP OID :** .1.3.6.1.4.1.13336.2.2.3.19.1.1.1.2.6

**Parent topic:** [SAP Connection Notifications](#)

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## PoolAddInfo

---

Adding Connection pool with the specified name.

Level : *Info*

Log Message : *Adding Connection Pool with name {PoolName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19cPoolAddInfoEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.1

SNMP Trap Number : 4

## Variables

---

The PoolAddInfo message contains the following variables:

Table 1. PoolAddInfo Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type :** String
- **SNMP Object Name :** CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID :** .1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. PoolName

Adding the connection pool .

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19cEv4PoolName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.19.1.1.1.4.1

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## PoolExistInfo

---

Connection pool with specified name already exists.

Level : *Info*

Log Message : *Connection Pool {PoolName} already exists, Using existing definition.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19cPoolExistInfoEv3

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.19.1.1

SNMP Trap Number : 3

## Variables

---

The PoolExistInfo message contains the following variables:

Table 1. PoolExistInfo Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. PoolName</b>
Connection pool name which already exists.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19cEv3PoolName</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.19.1.1.1.3.1</li> </ul>

**Parent topic:** [SAP Connection Notifications](#)

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## RemoveInfo

---

Removing connection pool with specified name.

Level : *Info*

Log Message : *Removing Connection Pool with name {PoolName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19cRemoveInfoEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.1

SNMP Trap Number : 5

## Variables

---

The RemoveInfo message contains the following variables:

Table 1. RemoveInfo Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. PoolName</b>  Removing the connection pool . <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19cEv5PoolName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.19.1.1.1.5.1</li></ul>

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## SAP Operation Notifications

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Provides a comprehensive list of operation notifications sent from the SAP Module.

- [AddingServerInfo](#)  
Adding server gateway.
- [BAPIActivationError](#)  
Error occurred while activating the BAPI activity.
- [BAPIParseError](#)  
Error occurred while parsing schema for the specified BAPI.
- [BAPIReturnError](#)  
Error returned by specified BAPI in the type field.
- [CompleteFunctionExec](#)  
This is the name of the function which is executed by the BAPI or RFC activity
- [CreateTID](#)  
Creating a specified TID in the TID manager.
- [CreateTrcDirFailed](#)  
Exception while setting the log directory for SAP trace files. The trace files generated by sap will be created on default location.
- [FuncRetStructNotFound](#)  
This is to report that activity is not able to find the return structure for the function
- [FunctionLookup](#)  
This is marking the start of finding the meta data of the BAPI or RFC activity in the SAP Repository
- [FunctionLookupComp](#)  
This is marking the completion of finding the meta data of the BAPI or RFC activity in the SAP Repository
- [GatewayCommWarning](#)  
Error occurred, while communicating to SAP Gateway.
- [GatewayRegisterError](#)  
Server gateway specified already exists.
- [GatewayRemoveInfo](#)  
Removing server gateway.
- [IDOCExtensionError](#)  
IDOC contains more than one type of IDOC extension type.
- [IDOCSentInfo](#)  
IDOC with specified TID was sent to SAP.
- [IDOCTypeError](#)  
Received IDOC contains more than one type of IDOC type.
- [InvalidRFCName](#)  
Unable to find specified RFC name.
- [ListenerInstanceInfo](#)  
SAP listener instance was started for SAP gateway.
- [ListenerStartInfo](#)  
SAP listener started again for specified host.
- [ListenerStopWarning](#)  
Error occurred while stopping the listener for specified host.
- [NoHandlerError](#)  
Received an IDOC for specified IDOC type and no activity was registered to process it. Ignoring the IDOC.
- [NoSegmentWarning](#)  
The specified IDOC number contains no data segment.
- [NonReturnStruct](#)  
No return structure returned by the specified BAPI.
- [ParseError](#)  
Error occurred while parsing schema for the RFC.
- [ProcessDocError](#)  
Error occurred while processing the IDOC.
- [RFCActivationError](#)  
Error occurred while activating the RFC activity.
- [ReceiveTIDNotFound](#)  
Specified TID was not found in TID manager.
- [RollbackWarning](#)  
Error occurred while rolling back the transaction. Ignoring and continuing the activity.
- [SAPActivityError](#)  
Error occurred while processing SAP activity.
- [SAPValidationErrors](#)  
Input data was not valid for specified RFC. The items specified were invalid.

- [SapLibNotFound](#)  
Sap activity is not able to activate because the sap provided libraries are not installed.
- [SendIDOCActivation](#)  
Error occurred while activating the Send IDOC activity.
- [SendIDOCCreateInfo](#)  
Created the specified TID for starting a transaction in send IDOC activity.
- [SendIDOCValidation](#)  
Input data was not valid for IDOC. The specified item(s) were invalid.
- [StartFunctionExec](#)  
This is the name of the function which is going to be executed by the BAPI or RFC activity
- [StartWarning](#)  
Error occurred while starting the server.
- [TIDCheck](#)  
SAP TIP check for specified ID is requested by SAP.
- [TIDCommit](#)  
SAP TID has been committed by SAP.
- [TIDCommitUnknown](#)  
SAP attempting to confirm an unknown or uncommitted TID.
- [TIDCommittedInfo](#)  
Specified TID was committed to SAP.
- [TIDCommittingInfo](#)  
Committing TID to SAP.
- [TIDConfirmed](#)  
SAP TID has been confirmed and deleted from the TID manager.
- [TIDRollback](#)  
SAP TID has been rolled back.
- [TIDSentInfo](#)  
Sending the IDOC with specified TID to SAP.
- [TIDUnknown](#)  
SAP has requested rollback for unknown TID.
- [TransactionalError](#)  
Unable to find the BAPI transaction RFCs.
- [UnicodeGateway](#)  
The unicode instance property is set through JCONSOLE.
- [ValidationError](#)  
Error occurred while validating the input data.
- [ValidationInfo](#)  
Validation is on/off for the specified field value.

**Parent topic:** [SAP Module](#)

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## AddingServerInfo

Adding server gateway.

Level : *Info*

Log Message : *Adding Server Gateway {GatewayName}*.

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-SAP-MIB::ciC19oAddingServerInfoEv30*

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 30

## Variables

---

The AddingServerInfo message contains the following variables:

Table 1. AddingServerInfo Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. GatewayName</b>  The gateway name which is being added. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv30GatewayName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.30.1</li></ul>

**Parent topic:** [SAP Operation Notifications](#)

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## BAPIActivationError

---

Error occurred while activating the BAPI activity.

Level : *Severe*

Log Message : *Exception while activating the BAPI Activity. The Exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oBAPIActivationErrorEv15

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 15

## Variables

The BAPIActivationError message contains the following variables:

Table 1. BAPIActivationError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

Parent topic: [SAP Operation Notifications](#)

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/sap/sap\\_operation\\_bapiactivationerror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/sap/sap_operation_bapiactivationerror_message.html)

## BAPIParseError

Error occurred while parsing schema for the specified BAPI.

Level : *Severe*

Log Message : *Exception while parsing schema for the BAPI {BAPIName}. The Exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oBAPIParseErrorEv16

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 16

## Variables

The BAPIParseError message contains the following variables:

Table 1. BAPIParseError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. BAPIName</b>  BAPI name for which parsing error occurred. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv16BAPIName</li></ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.16.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## BAPIReturnError

Error returned by specified BAPI in the type field.

Level : Severe

Log Message : *Error returned by BAPI {BAPIName} in the type field. The values returned are TYPE: {Type}, MESSAGE: {Message}, LOGNO: {LogNumber}, LOGMSGNO {LogMessage}*

System : Orchestration

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oBAPIReturnErrorEv18

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 18

## Variables

The BAPIReturnError message contains the following variables:

Table 1. BAPIReturnError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. BAPIName

The name of the BAPI for which the error occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv18BAPIName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.18.1

#### 6. Type

The type value returned.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv18Type
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.18.2

#### 7. Message

The message value returned.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv18Message
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.18.3

#### 8. LogNumber

The log number value returned.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv18LogNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.18.4

#### 9. LogMessage

The log message number value returned.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv18LogMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.18.5

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# CompleteFunctionExec

---

This is the name of the function which is executed by the BAPI or RFC activity

Level : *Info*

Log Message : *Call to function {FunctionName} is complete*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oCompleteFunctionExecEv44

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 44

## Variables

---

The CompleteFunctionExec message contains the following variables:

Table 1. CompleteFunctionExec Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. FunctionName</b>  Name of the BAPI or RFC <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv44FunctionName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.44.1</li></ul>

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## CreateTID

---

Creating a specified TID in the TID manager.

Level : *Info*

Log Message : *Creating a new TID {TID} in the TID Manager.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oCreateTIDEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 5

## Variables

---

The CreateTID message contains the following variables:

Table 1. CreateTID Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. TID</b>  Created this TID in specified TID manager.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv5TID
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.5.1

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## CreateTrcDirFailed

Exception while setting the log directory for SAP trace files. The trace files generated by sap will be created on default location.

Level : *Warning*

Log Message : *Exception while setting the log directory for SAP trace files.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oCreateTrcDirFailedEv49

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 49

## Variables

The CreateTrcDirFailed message contains the following variables:

Table 1. CreateTrcDirFailed Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. TraceLogDir

Path for the trace directory

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv49TraceLogDir
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.49.1

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## FuncRetStructNotFound

This is to report that activity is not able to find the return structure for the function

Level : *Info*

Log Message : *Not able to find field Return as structure. {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oFuncRetStructNotFoundEv47

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 47

## Variables

The FuncRetStructNotFound message contains the following variables:

Table 1. FuncRetStructNotFound Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## FunctionLookup

This is marking the start of finding the meta data of the BAPI or RFC activity in the SAP Repository

Level : *Info*

Log Message : *Looking up function {FunctionName} from SAP Repository*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oFunctionLookupEv45

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 45

## Variables

The FunctionLookup message contains the following variables:

Table 1. FunctionLookup Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. FunctionName

Name of the BAPI or RFC

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv45FunctionName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.45.1

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## FunctionLookupComp

This is marking the completion of finding the meta data of the BAPI or RFC activity in the SAP Repository

Level : *Info*

Log Message : *Looking up function {FunctionName} from SAP Repository (complete)*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-SAP-MIB::ciC19oFunctionLookupCompEv46*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.19.1.2*

SNMP Trap Number : *46*

## Variables

The FunctionLookupComp message contains the following variables:

Table 1. FunctionLookupComp Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. FunctionName

Name of the BAPI or RFC

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv46FunctionName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.46.1

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## GatewayCommWarning

Error occurred, while communicating to SAP Gateway.

Level : *Warning*

Log Message : *Error occurred, while communicating to SAP Gateway (host {HostName}, ProgramId {ProgramID}, Service {Service}), trying again in {IntervalForRetries} seconds.* |n*Original SAP error was |n {Message}* |n*If the SAP message indicates a retry interval it may not be correct.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oGatewayCommWarningEv35

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.19.1.2

## Variables

---

The GatewayCommWarning message contains the following variables:

Table 1. GatewayCommWarning Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. HostName</b>
The host name for which warning occurred.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv35HostName</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.35.1</li> </ul>
<b>6. ProgramID</b>
The program ID for which warning occurred.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv35ProgramID</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.35.2</li> </ul>
<b>7. Service</b>
The service name for which warning occurred.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv35Service</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.35.3</li> </ul>
<b>8. IntervalForRetries</b>

The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv35IntervalForRetries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.35.4

## 9. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## GatewayRegisterError

---

Server gateway specified already exists.

Level : *Info*

Log Message : *Server Gateway {GatewayName} already exists, Using the existing definition.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oGatewayRegisterErrorEv29

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 29

## Variables

---

The GatewayRegisterError message contains the following variables:

Table 1. GatewayRegisterError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. GatewayName

The gateway name which already exists.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv29GatewayName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.29.1

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## GatewayRemoveInfo

---

Removing server gateway.

Level : *Info*

Log Message : *Removing Server Gateway {GatewayName}*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oGatewayRemoveInfoEv31

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 31

## Variables

---

The GatewayRemoveInfo message contains the following variables:

Table 1. GatewayRemoveInfo Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. GatewayName

The gateway name which is being removed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv31GatewayName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.31.1

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## IDOCExtensionError

---

IDOC contains more than one type of IDOC extension type.

Level : Severe

Log Message : *Idoc contains more than one type of IDOC extension type*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oIDOCExtensionErrorEv41

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 41

## Variables

---

The IDOCExtensionError message contains the following variables:

Table 1. IDOCExtensionError Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## IDOCSentInfo

---

IDOC with specified TID was sent to SAP.

Level : *Info*

Log Message : *Idoc with the TID {TID} is sent successfully to sap.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oIDOCSentInfoEv26

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 26

---

## Variables

The IDOCSentInfo message contains the following variables:

Table 1. IDOCSentInfo Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. TID

The TID which was sent.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv26TID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.26.1

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## IDOCType\_Error

---

Received IDOC contains more than one type of IDOC type.

Level : *Severe*

Log Message : *Received IDOC contains more than one type of IDOC type*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oIDOCType\_Error\_40

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 40

## Variables

---

The IDOCTypeError message contains the following variables:

Table 1. IDOCTypeError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## InvalidRFCName

---

Unable to find specified RFC name.

Level : *Severe*

Log Message : *Unable to find RFC {RFCName}. Invalid RFC name.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oInvalidRFCNameEv14

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 14

## Variables

---

The InvalidRFCName message contains the following variables:

Table 1. InvalidRFCName Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. RFCName</b>  RFC name which was not found.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv14RFCName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.14.1</li></ul>

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## ListenerInstanceInfo

---

SAP listener instance was started for SAP gateway.

Level : *Info*

Log Message : SAP Listener instance {InstanceNumber} started for SAP Gateway(host {HostName}, ProgramId {ProgramID}, Service {Service}).

System : Orchestration

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oListenerInstanceInfoEv34

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 34

## Variables

---

The ListenerInstanceInfo message contains the following variables:

Table 1. ListenerInstanceInfo Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. InstanceNumber</b>  The instance number which was started. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv34InstanceNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.34.1</li></ul>
<b>6. HostName</b>  The host name for which instance was started. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv34HostName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.34.2</li></ul>
<b>7. ProgramID</b>

The program ID for which instance was started.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv34ProgramID
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.34.3

## 8. Service

The service name for which instance was started.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv34Service
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.34.4

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## ListenerStartInfo

---

SAP listener started again for specified host.

Level : *Info*

Log Message : SAP listener started again for host{*HostName*}, programid {*ProgramID*} and service {*Service*}.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oListenerStartInfoEv37

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 37

## Variables

---

The ListenerStartInfo message contains the following variables:

Table 1. ListenerStartInfo Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. HostName

The host name for which listener started.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv37HostName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.37.1

#### 6. ProgramID

The program ID for which listener started.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv37ProgramID
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.37.2

#### 7. Service

The service name for which listener started.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv37Service
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.37.3

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## ListenerStopWarning

---

Error occurred while stopping the listener for specified host.

Level : *Warning*

Log Message : *Exception while stopping the listener for host {HostName}, ProgramId {ProgramID} and Service {Service}.The Exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oListenerStopWarningEv39

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

## Variables

---

The ListenerStopWarning message contains the following variables:

Table 1. ListenerStopWarning Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. HostName</b>
The host name for which error occurred.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv39HostName</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.39.1</li> </ul>
<b>6. ProgramID</b>
The program ID for which error occurred.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv39ProgramID</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.39.2</li> </ul>
<b>7. Service</b>
The service name for which error occurred.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv39Service</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.39.3</li> </ul>
<b>8. Message</b>

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## NoHandlerError

---

Received an IDOC for specified IDOC type and no activity was registered to process it. Ignoring the IDOC.

Level : *Warning*

Log Message : *Received an IDOC for idotype {IDOCType} and no activity was registered to process it. Ignoring the IDOC.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oNoHandlerErrorEv42

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 42

## Variables

---

The NoHandlerError message contains the following variables:

Table 1. NoHandlerError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. IDOCType

IDOC type received.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv42IDOCType
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.42.1

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## NoSegmentWarning

The specified IDOC number contains no data segment.

Level : *Warning*

Log Message : *The IDOC number {IDOCNumber} contains no data segment.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oNoSegmentWarningEv22

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 22

## Variables

The NoSegmentWarning message contains the following variables:

Table 1. NoSegmentWarning Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. IDOCNumber

The IDOC number.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv22IDOCNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.22.1

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## NonReturnStruct

---

No return structure returned by the specified BAPI.

Level : *Severe*

Log Message : *No return structure returned by BAPI {BAPIName}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oNonReturnStructEv19

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 19

## Variables

---

The NonReturnStruct message contains the following variables:

Table 1. NonReturnStruct Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. BAPIName

The name of the BAPI for which the error occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv19BAPIName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.19.1

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## ParseError

---

Error occurred while parsing schema for the RFC.

Level : Severe

Log Message : *Exception while parsing schema for the RFC {RFCName}. The Exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oParseErrorEv13

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 13

## Variables

---

The ParseError message contains the following variables:

Table 1. ParseError Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. RFCName

RFC name for which error occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv13RFCName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.13.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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# ProcessDocError

---

Error occurred while processing the IDOC.

Level : Severe

Log Message : Exception while processing the IDOC. The exception is {Message}

System : Orchestration

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oProcessDocErrorEv33

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 33

## Variables

---

The ProcessDocError message contains the following variables:

Table 1. ProcessDocError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## RFCActivationError

Error occurred while activating the RFC activity.

Level : Severe

Log Message : *Exception while activating the RFC Activity. The Exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oRFCActivationErrorEv12

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 12

## Variables

The RFCActivationError message contains the following variables:

Table 1. RFCActivationError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## ReceiveTIDNotFound

---

Specified TID was not found in TID manager.

Level : *Severe*

Log Message : *Tid {TIDNumber} not found in TID manager.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-SAP-MIB::ciC19oReceiveTIDNotFoundEv32*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.19.1.2*

SNMP Trap Number : *32*

## Variables

---

The ReceiveTIDNotFound message contains the following variables:

Table 1. ReceiveTIDNotFound Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. TIDNumber

TID which was not found.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv32TIDNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.32.1

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## RollbackWarning

---

Error occurred while rolling back the transaction. Ignoring and continuing the activity.

Level : *Warning*

Log Message : *Exception while rolling back the transaction.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oRollbackWarningEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 2

## Variables

---

The RollbackWarning message contains the following variables:

Table 1. RollbackWarning Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## SAPActivityError

---

Error occurred while processing SAP activity.

Level : *Severe*

Log Message : *Exception while processing SAP activity. Error Group: {ErrorGroup}, Error Key: {ErrorKey}, Error Message: {Message}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oSAPActivityErrorEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 1

## Variables

---

The SAPActivityError message contains the following variables:

Table 1. SAPActivityError Message Variables

<b>1. SerialNumber</b> <p>The serial number of the appliance sending the trap.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b> <p>The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. ErrorGroup

The group mentioned in the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv1ErrorGroup
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.1.1

#### 6. ErrorKey

The key mentioned in the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv1ErrorKey
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.1.2

#### 7. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## SAPValidationError

---

Input data was not valid for specified RFC. The items specified were invalid.

Level : *Severe*

Log Message : *Input data was not valid for RFC {RFCName}. The following item(s) were invalid: {InvalidItems}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oSAPValidationErrorEv11

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 11

## Variables

---

The SAPValidationError message contains the following variables:

Table 1. SAPValidationError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. RFCName</b>
RFC name for which data was not valid.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv11RFCName</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.11.1</li> </ul>
<b>6. InvalidItems</b>
The items which were not valid.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv11InvalidItems</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.11.2</li> </ul>

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## SapLibNotFound

---

Sap activity is not able to activate because the sap provided libraries are not installed.

Level : *Severe*

Log Message : *Exception while activating the sap. The exception is because the sap libraries are not installed. Exception is*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oSapLibNotFoundEv48

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 48

## Variables

The SapLibNotFound message contains the following variables:

Table 1. SapLibNotFound Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## SendIDOCActivation

---

Error occurred while activating the Send IDOC activity.

Level : *Severe*

Log Message : *Exception while activating the Send IDOC Activity. The Exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oSendIDOCActivationEv23

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 23

## Variables

---

The SendIDOCActivation message contains the following variables:

Table 1. SendIDOCActivation Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li></ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## SendIDOCCreateInfo

---

Created the specified TID for starting a transaction in send IDOC activity.

Level : *Info*

Log Message : *Created a new TID {TID} for starting a transaction in send IDOC activity.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oSendIDOCCreateInfoEv24

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 24

## Variables

---

The SendIDOCCreateInfo message contains the following variables:

Table 1. SendIDOCCreateInfo Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> </ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. TID

The new TID which is created.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv24TID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.24.1

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## SendIDOCValidation

Input data was not valid for IDOC. The specified item(s) were invalid.

Level : Severe

Log Message : *Input data was not valid for IDOC. The following item(s) were invalid: {InvalidItems}*

System : Orchestration

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oSendIDOCValidationEv20

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 20

## Variables

The SendIDOCValidation message contains the following variables:

Table 1. SendIDOCValidation Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. InvalidItems

The invalid items in the input data.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv20InvalidItems
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.20.1

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## StartFunctionExec

This is the name of the function which is going to be executed by the BAPI or RFC activity

Level : *Info*

Log Message : *About to execute function {FunctionName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oStartFunctionExecEv43

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 43

## Variables

The StartFunctionExec message contains the following variables:

Table 1. StartFunctionExec Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. FunctionName

Name of the BAPI or RFC

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv43FunctionName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.43.1

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## StartWarning

Error occurred while starting the server.

Level : *Info*

Log Message : *Exception while starting the server. Exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oStartWarningEv38

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 38

## Variables

The StartWarning message contains the following variables:

Table 1. StartWarning Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## TIDCheck

SAP TIP check for specified ID is requested by SAP.

Level : *Info*

Log Message : SAP TID {TID} check requested by SAP.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oTIDCheckEv4

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 4

## Variables

---

The TIDCheck message contains the following variables:

Table 1. TIDCheck Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. TID</b>  TID for which check is requested.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv4TID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.4.1</li></ul>

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## TIDCommit

---

SAP TID has been committed by SAP.

Level : *Info*

Log Message : SAP TID {TID} has been committed by SAP.

System : Orchestration

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oTIDCommitEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 9

## Variables

---

The TIDCommit message contains the following variables:

Table 1. TIDCommit Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. TID</b>  TID which has been committed. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv9TID</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.9.1</li></ul>

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## TIDCommitUnknown

SAP attempting to confirm an unknown or uncommitted TID.

Level : *Severe*

Log Message : *SAP attempting to confirm an unknown or uncommitted TID*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oTIDCommitUnknownEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 10

## Variables

The TIDCommitUnknown message contains the following variables:

Table 1. TIDCommitUnknown Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## TIDCommittedInfo

---

Specified TID was committed to SAP.

Level : *Info*

Log Message : *TID {TID} committed successfully.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-SAP-MIB::ciC19oTIDCommittedInfoEv28*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.19.1.2*

SNMP Trap Number : *28*

## Variables

---

The TIDCommittedInfo message contains the following variables:

Table 1. TIDCommittedInfo Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. TID</b>  The TID which is committed. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv28TID</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.28.1</li></ul>

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## TIDCommittingInfo

---

Committing TID to SAP.

Level : *Info*

Log Message : *Committing TID {TID}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oTIDCommittingInfoEv27

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 27

## Variables

---

The TIDCommittingInfo message contains the following variables:

Table 1. TIDCommittingInfo Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. TID

The TID which is being committed.

- **Type :** String
- **SNMP Object Name :** CASTIRON-COMP-SAP-MIB::ciC19oEv27TID
- **SNMP OID :** .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.27.1

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## TIDConfirmed

SAP TID has been confirmed and deleted from the TID manager.

Level : *Info*

Log Message : *SAP TID {TID} has been confirmed and deleted from the TID Manager.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-SAP-MIB::ciC19oTIDConfirmedEv6*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.19.1.2*

SNMP Trap Number : *6*

## Variables

The TIDConfirmed message contains the following variables:

Table 1. TIDConfirmed Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type :** String
- **SNMP Object Name :** CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID :** 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type :** Integer
- **SNMP Object Name :** CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID :** 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type :** String
- **SNMP Object Name :** CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID :** 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. TID

TID which was confirmed and deleted.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv6TID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.6.1

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## TIDRollback

---

SAP TID has been rolled back.

Level : *Info*

Log Message : SAP TID {TID} has been rolled-back by SAP.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oTIDRollbackEv7

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 7

## Variables

---

The TIDRollback message contains the following variables:

Table 1. TIDRollback Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. TID

TID which was rolled back.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv7TID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.7.1

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## TIDSentInfo

---

Sending the IDOC with specified TID to SAP.

Level : *Info*

Log Message : *Sending IDOC with the TID {TID} to sap.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oTIDSentInfoEv25

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 25

## Variables

---

The TIDSentInfo message contains the following variables:

Table 1. TIDSentInfo Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber

- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. TID

The TID which was sent.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv25TID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.25.1

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/sap/sap\\_operation\\_tidsentinfo\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/sap/sap_operation_tidsentinfo_message.html)

## TIDUnknown

SAP has requested rollback for unknown TID.

Level : *Severe*

Log Message : *SAP has requested rollback for unknown TID {TID}. Cannot rollback.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oTIDUnknownEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 8

## Variables

The TIDUnknown message contains the following variables:

Table 1. TIDUnknown Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. TID</b>  TID which could not be rolled back.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv8TID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.8.1</li></ul>

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## TransactionalError

---

Unable to find the BAPI transaction RFCs.

Level : *Severe*

Log Message : *Unable to find the BAPI transaction RFC's.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oTransactionalErrorEv17

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 17

## Variables

---

The TransactionalError message contains the following variables:

Table 1. TransactionalError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## UnicodeGateway

---

The unicode instance property is set through JCONSOLE.

Level : *Info*

Log Message : *The unicode instance property is set through JCONSOLE*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oUnicodeGatewayEv36

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 36

## Variables

---

The UnicodeGateway message contains the following variables:

Table 1. UnicodeGateway Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## ValidationError

---

Error occurred while validating the input data.

Level : *Severe*

Log Message : *Exception while validating the input data. The Exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19oValidationErrorEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.2

SNMP Trap Number : 3

## Variables

---

The ValidationError message contains the following variables:

Table 1. ValidationError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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## ValidationInfo

---

Validation is on/off for the specified field value.

Level : *Info*

Log Message : *Validation is {ValidationStatus} for {Value}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-SAP-MIB::ciC19oValidationInfoEv21*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.19.1.2*

SNMP Trap Number : *21*

## Variables

The ValidationInfo message contains the following variables:

Table 1. ValidationInfo Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ValidationStatus</b>  The validation status either on or off. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv21ValidationStatus</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.21.1</li></ul>
<b>6. Value</b>  The value which is validated. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv21Value</li></ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.21.2

**Parent topic:** [SAP Operation Notifications](#)

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## SAP Internal Notifications

---

Provides a comprehensive list of internal notifications sent from the SAP Module.

- [ConnectionPoolError](#)  
Connection Pool returned null connection.
- [InitializationError](#)  
Error occurred while initializing the send IDOC activity.
- [InvalidTIDerror](#)  
TID was not set in the task context.
- [SerializingError](#)  
Error occurred while creating IDOC from input parameter.

**Parent topic:** [SAP Module](#)

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## ConnectionPoolError

---

Connection Pool returned null connection.

Level : *Severe*

Log Message : *Null connection return by the connection pool.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-SAP-MIB::ciC19iConnectionPoolErrorEv1*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.19.1.3*

SNMP Trap Number : *1*

## Variables

---

The ConnectionPoolError message contains the following variables:

Table 1. ConnectionPoolError Message Variables

- |                        |
|------------------------|
| 1. <b>SerialNumber</b> |
|------------------------|

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

**Parent topic:** [SAP Internal Notifications](#)

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## InitializationError

---

Error occurred while initializing the send IDOC activity.

Level : *Severe*

Log Message : *Exception while initializing the send IDOC activity. The error message is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19iInitializationErrorEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.3

SNMP Trap Number : 4

## Variables

---

The InitializationError message contains the following variables:

Table 1. InitializationError Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## InvalidTIDerror

---

TID was not set in the task context.

Level : *Severe*

Log Message : *TID not set in the task state.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19iInvalidTIDerrorEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.3

SNMP Trap Number : 2

## Variables

---

The InvalidTIDerror message contains the following variables:

Table 1. InvalidTIDerror Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

**Parent topic:** [SAP Internal Notifications](#)

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## SerializableError

---

Error occurred while creating IDOC from input parameter.

Level : *Severe*

Log Message : *Exception while creating IDOC form input parameter. The Exception is {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SAP-MIB::ciC19iSerializableErrorEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.19.1.3

SNMP Trap Number : 3

## Variables

---

The SerializingError message contains the following variables:

Table 1. SerializingError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

Parent topic: [SAP Internal Notifications](#)

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## STS Module

---

The SAML STS Module This section contains details for the messages delivered from the STS Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the STS Module.

MIB Name : CASTIRON-COMP-STS-MIB

MIB OID : .1.3.6.1.4.1.13336.2.2.3.27

The following table provides an alphabetical list of all notifications that can be issued by the STS Module.

Table 1. Notifications issued by the STS Module

Notification	Level	System	Description
ActivationFailed	Severe	Orchestration	Activation of Get SAML 2.0 token failed
AssertionEmpty	Severe	Orchestration	Received empty response from Security Token Service. Cannot get the SAML Assertion.
InputBodyConsidered	Info	Orchestration	RequestSecurityToken from Map Inputs is sent as request body because data sent in Map Inputs holds higher priority than in Configure Panel
RequestLocation	Info	Orchestration	Location of request being sent to Security Token Service
UriDeprecated	Warning	Orchestration	Security Token Service Module has deprecated the input parameter httpheaders/uri. The specified value will be ignored.

- [STS Operation Notifications](#)

Provides a comprehensive list of operation notifications sent from the STS Module.

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## STS Operation Notifications

---

Provides a comprehensive list of operation notifications sent from the STS Module.

- [ActivationFailed](#)  
Activation of Get SAML 2.0 token failed
- [AssertionEmpty](#)  
Received empty response from Security Token Service. Cannot get the SAML Assertion.
- [InputBodyConsidered](#)  
RequestSecurityToken from Map Inputs is sent as request body because data sent in Map Inputs holds higher priority than in Configure Panel
- [RequestLocation](#)  
Location of request being sent to Security Token Service
- [UriDeprecated](#)  
Security Token Service Module has deprecated the input parameter httpheaders/uri. The specified value will be ignored.

**Parent topic:** [STS Module](#)

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# ActivationFailed

---

Activation of Get SAML 2.0 token failed

Level : *Severe*

Log Message : *Activation of Get SAML 2.0 token failed*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-STS-MIB::ciC27oActivationFailedEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.27.1.2

SNMP Trap Number : 1

## Variables

---

The ActivationFailed message contains the following variables:

Table 1. ActivationFailed Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

**Parent topic:** [STS Operation Notifications](#)

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# AssertionEmpty

---

Received empty response from Security Token Service. Cannot get the SAML Assertion.

Level : *Severe*

Log Message : *Response from Security Token Service is empty*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-STS-MIB::ciC27oAssertionEmptyEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.27.1.2

SNMP Trap Number : 3

## Variables

---

The AssertionEmpty message contains the following variables:

Table 1. AssertionEmpty Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

**Parent topic:** [STS Operation Notifications](#)

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# InputBodyConsidered

---

RequestSecurityToken from Map Inputs is sent as request body because data sent in Map Inputs holds higher priority than in Configure Panel

Level : *Info*

Log Message : *RequestSecurityToken from Map Inputs is sent as request*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-STS-MIB::ciC27oInputBodyConsideredEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.27.1.2

SNMP Trap Number : 4

## Variables

---

The InputBodyConsidered message contains the following variables:

Table 1. InputBodyConsidered Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

Parent topic: [STS Operation Notifications](#)

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## RequestLocation

Location of request being sent to Security Token Service

Level : *Info*

Log Message : *Sending request to Security Token Service at location : {Location}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-STS-MIB::ciC27oRequestLocationEv5*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.27.1.2*

SNMP Trap Number : *5*

## Variables

The RequestLocation message contains the following variables:

Table 1. RequestLocation Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Location</b>  Request Location <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-STS-MIB::ciC27oEv5Location</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.27.1.2.1.5.1</li></ul>

**Parent topic:** [STS Operation Notifications](#)

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## UriDeprecated

---

Security Token Service Module has deprecated the input parameter httpheaders/uri. The specified value will be ignored.

Level : *Warning*

Log Message : *Security Token Service Module has deprecated the input parameter "httpheaders/uri". The value: {Value} will be ignored. Please set the URL at the input parameter "location".*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-STS-MIB::ciC27oUriDeprecatedEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.27.1.2

SNMP Trap Number : 2

## Variables

---

The UriDeprecated message contains the following variables:

Table 1. UriDeprecated Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. Value

The value which will be ignored due to deprecated input parameter.

- **Type :** String
- **SNMP Object Name :** CASTIRON-COMP-STS-MIB::ciC27oEv2Value
- **SNMP OID :** .1.3.6.1.4.1.13336.2.2.3.27.1.2.1.2.1

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## Salesforce.com Module

The Salesforce.com Module provides access to the Salesforce.com online service. This section contains details for the messages delivered from the Salesforce.com Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the Salesforce.com Module.

MIB Name : **CASTIRON-COMP-SFDC-MIB**

MIB OID : **.1.3.6.1.4.1.13336.2.2.3.3**

The following table provides an alphabetical list of all notifications that can be issued by the Salesforce.com Module.

Table 1. Notifications issued by the Salesforce.com Module

Notification	Level	System	Description
ActivateError	Severe	Orchestration	There was a problem in activating the activity.
ActivityOutput	Info	Orchestration	The activity has completed its operation and outputted param objects in output parameter.
BatchPollStart	Info	Orchestration	Starting a batch poll for index range specified.
ConnectFailed	Severe	Orchestration	The Salesforce.com operation failed because a connection to the server could not be established. This happened cause of reasons other than connectivity issues.
ConnectionFailed	Severe	Orchestration	The Salesforce.com operation failed because a connection to the server could not be established.
ConnectionRetry	Warning	Orchestration	The Salesforce.com operation failed while trying to connect to the server. This will cause a retry.
ConnectionTryAgain	Info	Orchestration	Not able to connect to Salesforce endpoint. Trying to establish a new session.
EndpointNull	Severe	Orchestration	The endpoint object provided to Salesforce.com activity is null.
ExecuteError	Severe	Orchestration	An error occurred while executing the activity.
ExecuteProblem	Severe	Orchestration	An error occurred while executing the query.
InitializeProblem	Warning	Orchestration	Error from Salesforce.com while initializing activity. Trying to ignore error and proceed.
InputParamMapped	Info	Orchestration	The optional input parameter in the activity is mapped.
InputParamNotMapped	Info	Orchestration	The optional input parameter in the activity is not mapped.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
InvalidQuery	Severe	Orchestration	The query provided to Salesforce.com was invalid.
InvalidSFDCField	Severe	Orchestration	The field is invalid in Salesforce.com.
InvalidSFDCObject	Severe	Orchestration	The object is invalid in Salesforce.com
LargeData	Severe	Orchestration	The activity was not able to get data as id limit has exceeded.
LargeDataError	Severe	Orchestration	An error occurred due to large data which activity cannot handle.
LoginFailure	Severe	Orchestration	Failure while performing a login into Salesforce.com.
MarshalError	Severe	Orchestration	An error occurred while writing output parameters in the activity.
MetadataError	Severe	Orchestration	Unable to obtain meta data from Salesforce.com.
MetadataObjectError	Severe	Orchestration	Unable to obtain meta data for the object from Salesforce.com.
NoDatafound	Info	Orchestration	No data was found by the activity in the interval specified.
OptionalInputError	Severe	Orchestration	Salesforce session timed out. The session was not created as optional connection input parameter was not mapped.
ParameterOutput	Info	Orchestration	The activity has completed its operation and outputted objects in output parameter.
ParameterResults	Info	Orchestration	The activity has completed its operation and outputted result objects in output parameter.
PollActivateError	Severe	Orchestration	The poll activity failed to activate.
PollOutput	Info	Orchestration	The number of objects outputted for a batch poll.
PollReturnedNothing	Info	Orchestration	The poll activity did not return any ids for specified interval.
PollReturnedResults	Info	Orchestration	Poll activity returned these number of ids for interval specified.
SessionInvalid	Info	Orchestration	Salesforce session timed out and activity is establishing a new session.
SfdcErrorInternal	Severe	Orchestration	An internal error occurred in Salesforce.com connector.
ShortPoll	Info	Orchestration	The current time is less than 1 minute past last polling time, so activity is skipping the poll at this interval.
StillRun	Info	Orchestration	There is a problem in connectivity and messages will be picked up from this time when connectivity is established.
TimeTooClose	Info	Orchestration	The end time specified is less than 1 minute past start time. Setting the interval to 1 minute and getting the data.
UnexpectedSFDCFault	Severe	Orchestration	Salesforce.com returned an unexpected fault that is not declared in the method signature.
UnmarshalError	Severe	Orchestration	An error occurred while reading input parameters in the activity.

- [Salesforce.com Connection Notifications](#)

Provides a comprehensive list of connection notifications sent from the Salesforce.com Module.

- [Salesforce.com Operation Notifications](#)

Provides a comprehensive list of operation notifications sent from the Salesforce.com Module.

- [Salesforce.com Internal Notifications](#)

Provides a comprehensive list of internal notifications sent from the Salesforce.com Module.

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# Salesforce.com Connection Notifications

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Provides a comprehensive list of connection notifications sent from the Salesforce.com Module.

- [ConnectionFailed](#)  
The Salesforce.com operation failed because a connection to the server could not be established.
- [ConnectionRetry](#)  
The Salesforce.com operation failed while trying to connect to the server. This will cause a retry.
- [ConnectionTryAgain](#)  
Not able to connect to Salesforce endpoint. Trying to establish a new session.
- [LoginFailure](#)  
Failure while performing a login into Salesforce.com.
- [OptionalInputError](#)  
Salesforce session timed out. The session was not created as optional connection input parameter was not mapped.
- [SessionInvalid](#)  
Salesforce session timed out and activity is establishing a new session.
- [StillRun](#)  
There is a problem in connectivity and messages will be picked up from this time when connectivity is established.

**Parent topic:** [Salesforce.com Module](#)

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## ConnectionFailed

---

The Salesforce.com operation failed because a connection to the server could not be established.

Level : *Severe*

Log Message : *Unable to connect to Salesforce.com after {NumberOfRetryAttempts} attempts. Error is: {Message}.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-SFDC-MIB::ciC3cConnectionFailedEv4*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.3.1.1*

SNMP Trap Number : *4*

## Variables

---

The ConnectionFailed message contains the following variables:

Table 1. ConnectionFailed Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. NumberOfRetryAttempts

The total number of attempted retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3cEv4NumberOfRetryAttempts
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.3.1.1.1.4.1

### 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## ConnectionRetry

The Salesforce.com operation failed while trying to connect to the server. This will cause a retry.

Level : *Warning*

Log Message : *Unable to connect to Salesforce.com. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3cConnectionRetryEv3

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.3.1.1

SNMP Trap Number : 3

## Variables

The ConnectionRetry message contains the following variables:

Table 1. ConnectionRetry Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>
<b>6. RetryAttemptNumber</b>  The current number of retries. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SFDC-MIB::ciC3cEv3RetryAttemptNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.3.1.1.1.3.2</li></ul>
<b>7. TotalRetryAttempts</b>  The specified number of attempts to connect to the server before stopping. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SFDC-MIB::ciC3cEv3TotalRetryAttempts</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.3.1.1.1.3.3</li></ul>
<b>8. IntervalForRetries</b>  The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3cEv3IntervalForRetries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.3.1.1.1.3.4

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## ConnectionTryAgain

Not able to connect to Salesforce endpoint. Trying to establish a new session.

Level : *Info*

Log Message : *Not able to connect, error is: {Message}. Establishing a new session.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3cConnectionTryAgainEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.1

SNMP Trap Number : 7

## Variables

The ConnectionTryAgain message contains the following variables:

Table 1. ConnectionTryAgain Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap. <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification. <ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## LoginFailure

---

Failure while performing a login into Salesforce.com.

Level : *Severe*

Log Message : *Salesforce.com logon failure. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3cLoginFailureEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.1

SNMP Trap Number : 1

## Variables

---

The LoginFailure message contains the following variables:

Table 1. LoginFailure Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

<b>2. Severity</b>
--------------------

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

<b>3. JobID</b>
-----------------

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## OptionalInputError

Salesforce session timed out. The session was not created as optional connection input parameter was not mapped.

Level : *Severe*

Log Message : *Salesforce session timed out. The session was not created as optional connection input parameter was not mapped.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3cOptionalInputErrorEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.1

SNMP Trap Number : 5

## Variables

The OptionalInputError message contains the following variables:

Table 1. OptionalInputError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## SessionInvalid

Salesforce session timed out and activity is establishing a new session.

Level : *Info*

Log Message : *Session timed out. Establishing a new session.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3cSessionInvalidEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.1

SNMP Trap Number : 6

## Variables

The SessionInvalid message contains the following variables:

Table 1. SessionInvalid Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## StillRun

There is a problem in connectivity and messages will be picked up from this time when connectivity is established.

Level : *Info*

Log Message : *Not able to establish connectivity. Polling will fail till connectivity is established. However when connectivity is established, messages will be picked up from this time onwards.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3cStillRunEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.1

SNMP Trap Number : 2

## Variables

The StillRun message contains the following variables:

Table 1. StillRun Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## Salesforce.com Operation Notifications

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Provides a comprehensive list of operation notifications sent from the Salesforce.com Module.

- **ActivateError**  
There was a problem in activating the activity.
- **ActivityOutput**  
The activity has completed its operation and outputted param objects in output parameter.
- **BatchPollStart**  
Starting a batch poll for index range specified.
- **ConnectFailed**  
The Salesforce.com operation failed because a connection to the server could not be established. This happened cause of reasons other than connectivity issues.
- **ExecuteError**  
An error occurred while executing the activity.
- **ExecuteProblem**  
An error occurred while executing the query.
- **InitializeProblem**  
Error from Salesforce.com while initializing activity. Trying to ignore error and proceed.
- **InputParamMapped**  
The optional input parameter in the activity is mapped.
- **InputParamNotMapped**  
The optional input parameter in the activity is not mapped.
- **InvalidQuery**  
The query provided to Salesforce.com was invalid.
- **InvalidSFDCField**  
The field is invalid in Salesforce.com.
- **InvalidSFDCObject**  
The object is invalid in Salesforce.com

- [LargeData](#)  
The activity was not able to get data as id limit has exceeded.
- [LargeDataError](#)  
An error occurred due to large data which activity cannot handle.
- [MetadataError](#)  
Unable to obtain meta data from Salesforce.com.
- [MetadataObjectError](#)  
Unable to obtain meta data for the object from Salesforce.com.
- [NoDatafound](#)  
No data was found by the activity in the interval specified.
- [ParameterOutput](#)  
The activity has completed its operation and outputted objects in output parameter.
- [ParameterResults](#)  
The activity has completed its operation and outputted result objects in output parameter.
- [PollActivateError](#)  
The poll activity failed to activate.
- [PollOutput](#)  
The number of objects outputted for a batch poll.
- [PollReturnedNothing](#)  
The poll activity did not return any ids for specified interval.
- [PollReturnedResults](#)  
Poll activity returned these number of ids for interval specified.
- [ShortPoll](#)  
The current time is less than 1 minute past last polling time, so activity is skipping the poll at this interval.
- [TimeTooClose](#)  
The end time specified is less than 1 minute past start time. Setting the interval to 1 minute and getting the data.
- [UnexpectedSFDCFault](#)  
Salesforce.com returned an unexpected fault that is not declared in the method signature.

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## ActivateError

There was a problem in activating the activity.

Level : *Severe*

Log Message : *Activity could not get activated. Error is: {Message}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-SFDC-MIB::ciC3oActivateErrorEv24*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.3.1.2*

SNMP Trap Number : *24*

## Variables

The ActivateError message contains the following variables:

Table 1. ActivateError Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## ActivityOutput

---

The activity has completed its operation and outputted param objects in output parameter.

Level : *Info*

Log Message : *Completed activity and spewed out sessionInfo and {NameOfOutputParam} output parameter.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oActivityOutputEv23

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.2

## Variables

---

The ActivityOutput message contains the following variables:

Table 1. ActivityOutput Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. NameOfOutputParam</b>
Name of the output parameter.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SFDC-MIB::ciC3oEv23NameOfOutputParam</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.3.1.2.1.23.1</li> </ul>

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## BatchPollStart

---

Starting a batch poll for index range specified.

Level : Info

Log Message : Starting batch of size {BatchSize} for index {StartIndex} through {EndIndex}.

System : Orchestration

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oBatchPollStartEv13

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 13

## Variables

---

The BatchPollStart message contains the following variables:

Table 1. BatchPollStart Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. BatchSize</b>  The batch size for the poll.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SFDC-MIB::ciC3oEv13BatchSize</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.13.1</li></ul>
<b>6. StartIndex</b>  The start index specified.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SFDC-MIB::ciC3oEv13StartIndex</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.13.2</li></ul>
<b>7. EndIndex</b>

The end index specified.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv13EndIndex
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.13.3

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## ConnectFailed

---

The Salesforce.com operation failed because a connection to the server could not be established. This happened cause of reasons other than connectivity issues.

Level : *Severe*

Log Message : *Unable to connect to Salesforce.com. Error is: {Message}*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oConnectFailedEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 9

## Variables

---

The ConnectFailed message contains the following variables:

Table 1. ConnectFailed Message Variables

<b>1. SerialNumber</b> <p>The serial number of the appliance sending the trap.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b> <p>The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## ExecuteError

---

An error occurred while executing the activity.

Level : *Severe*

Log Message : *Error while trying to execute activity. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oExecuteErrorEv6

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 6

## Variables

---

The ExecuteError message contains the following variables:

Table 1. ExecuteError Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## ExecuteProblem

---

An error occurred while executing the query.

Level : *Severe*

Log Message : *Error while trying to execute query. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oExecuteProblemEv8

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 8

## Variables

---

The ExecuteProblem message contains the following variables:

Table 1. ExecuteProblem Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## InitializeProblem

---

Error from Salesforce.com while initializing activity. Trying to ignore error and proceed.

Level : *Warning*

Log Message : *Error from Salesforce.com while initializing activity. Trying to ignore error and proceed. Error is: {Message}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oInitializeProblemEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 10

## Variables

---

The InitializeProblem message contains the following variables:

Table 1. InitializeProblem Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. Message</b>
Textual description of the error.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li> </ul>

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## InputParamMapped

---

The optional input parameter in the activity is mapped.

Level : *Info*

Log Message : *Optional input parameter {ParamName} mapped.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oInputParamMappedEv19

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 19

## Variables

---

The InputParamMapped message contains the following variables:

Table 1. InputParamMapped Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ParamName</b>  The name of the mapped input parameter. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SFDC-MIB::ciC3oEv19ParamName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.3.1.2.1.19.1</li></ul>

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## InputParamNotMapped

---

The optional input parameter in the activity is not mapped.

Level : *Info*

Log Message : *Optional input parameter {ParamName} not mapped.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-SFDC-MIB::ciC3oInputParamNotMappedEv20*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.3.1.2*

SNMP Trap Number : *20*

## Variables

The InputParamNotMapped message contains the following variables:

Table 1. InputParamNotMapped Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ParamName</b>  The name of the input parameter not mapped. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SFDC-MIB::ciC3oEv20ParamName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.3.1.2.1.20.1</li></ul>

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## InvalidQuery

---

The query provided to Salesforce.com was invalid.

Level : *Severe*

Log Message : *Problem with querying. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oInvalidQueryEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 4

## Variables

---

The InvalidQuery message contains the following variables:

Table 1. InvalidQuery Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li></ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## InvalidSFDCField

---

The field is invalid in Salesforce.com.

Level : *Severe*

Log Message : *Invalid Salesforce.com field. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oInvalidSFDCFieldEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 2

## Variables

---

The InvalidSFDCField message contains the following variables:

Table 1. InvalidSFDCField Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> </ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## InvalidSFDCObject

The object is invalid in Salesforce.com

Level : Severe

Log Message : *Invalid Salesforce.com object. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oInvalidSFDCObjectEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 3

## Variables

The InvalidSFDCObject message contains the following variables:

Table 1. InvalidSFDCObject Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## LargeData

The activity was not able to get data as id limit has exceeded.

Level : *Severe*

Log Message : *Could not get data for date range, because id limit exceeded*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oLargeDataEv18

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 18

## Variables

The LargeData message contains the following variables:

Table 1. LargeData Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## LargeDataError

An error occurred due to large data which activity cannot handle.

Level : *Severe*

Log Message : *Activity failed as data to get is larger than activity can handle. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oLargeDataErrorEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 7

## Variables

The LargeDataError message contains the following variables:

Table 1. LargeDataError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## MetadataError

Unable to obtain meta data from Salesforce.com.

Level : *Severe*

Log Message : *Unable to obtain meta data from Salesforce.com. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oMetadataErrorEv25

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 25

## Variables

The MetadataError message contains the following variables:

Table 1. MetadataError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## MetadataObjectError

Unable to obtain meta data for the object from Salesforce.com.

Level : *Severe*

Log Message : *Unable to obtain meta data from Salesforce.com for {NameOfObject}. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oMetadataObjectErrorEv26

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 26

## Variables

The MetadataObjectError message contains the following variables:

Table 1. MetadataObjectError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. NameOfObject</b>  Name of the object.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SFDC-MIB::ciC3oEv26NameOfObject</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.26.1</li></ul>
<b>6. Message</b>  Textual description of the error.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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# NoDatafound

---

No data was found by the activity in the interval specified.

Level : *Info*

Log Message : *No data found in the interval.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oNoDatafoundEv16

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 16

## Variables

---

The NoDatafound message contains the following variables:

Table 1. NoDatafound Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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# ParameterOutput

The activity has completed its operation and outputted objects in output parameter.

Level : *Info*

Log Message : *Completed activity and spewed out sessionInfo output parameter and {NumberOfObjects} objects in output parameter {NameOfOutputParam}.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-SFDC-MIB::ciC3oParameterOutputEv21*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.3.1.2*

SNMP Trap Number : *21*

## Variables

The ParameterOutput message contains the following variables:

Table 1. ParameterOutput Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. NumberOfObjects</b>  Number of objects outputted by the activity. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SFDC-MIB::ciC3oEv21NumberOfObjects</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.3.1.2.1.21.1</li></ul>
<b>6. NameOfOutputParam</b>  Name of the output parameter.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv21NameOfOutputParam
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.21.2

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## ParameterResults

The activity has completed its operation and outputted result objects in output parameter.

Level : *Info*

Log Message : *Completed activity and spewed out sessionInfo output parameter and {NumberOfResults} result objects in output parameter {NameOfOutputParam}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oParameterResultsEv22

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 22

## Variables

The ParameterResults message contains the following variables:

Table 1. ParameterResults Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. NumberOfResults

Number of result objects outputted by the activity.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv22NumberOfResults
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.3.1.2.1.22.1

## 6. NameOfOutputParam

Name of the output parameter.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv22NameOfOutputParam
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.3.1.2.1.22.2

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## PollActivateError

---

The poll activity failed to activate.

Level : Severe

Log Message : *Error while trying to activate activity. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oPollActivateErrorEv5

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 5

## Variables

---

The PollActivateError message contains the following variables:

Table 1. PollActivateError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## PollOutput

---

The number of objects outputted for a batch poll.

Level : *Info*

Log Message : *Outputted {OutputSize} objects in 'objects' output parameter.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oPollOutputEv14

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 14

## Variables

---

The PollOutput message contains the following variables:

Table 1. PollOutput Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. OutputSize

The number of objects in the output.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv14OutputSize
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.3.1.2.1.14.1

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## PollReturnedNothing

---

The poll activity did not return any ids for specified interval.

Level : *Info*

Log Message : *Poll did not return any ids for interval starting from {PollStartTime} to {PollEndTime}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oPollReturnedNothingEv15

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 15

## Variables

The PollReturnedNothing message contains the following variables:

Table 1. PollReturnedNothing Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. PollStartTime</b>  The start time for the poll. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SFDC-MIB::ciC3oEv15PollStartTime</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.15.1</li></ul>
<b>6. PollEndTime</b>  The end time for the poll. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SFDC-MIB::ciC3oEv15PollEndTime</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.15.2</li></ul>

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## PollReturnedResults

---

Poll activity returned these number of ids for interval specified.

Level : *Info*

Log Message : *Poll returned {NumberOfIds} ids for interval starting from {PollStartTime} to {PollEndTime}.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-SFDC-MIB::ciC3oPollReturnedResultsEv12*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.3.1.2*

SNMP Trap Number : *12*

## Variables

---

The PollReturnedResults message contains the following variables:

Table 1. PollReturnedResults Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. NumberOfIds</b>  The number of ids returned by the poll. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SFDC-MIB::ciC3oEv12NumberOfIds</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.3.1.2.1.12.1</li></ul>
<b>6. PollStartTime</b>  The start time for the poll. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>

- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv12PollStartTime
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.12.2

## 7. PollEndTime

The end time for the poll.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv12PollEndTime
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.12.3

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## ShortPoll

The current time is less than 1 minute past last polling time, so activity is skipping the poll at this interval.

Level : *Info*

Log Message : *Current time {CurrentTime} is less than 1 minute past last polling time {LastPollingTime}. Skipping this polling interval.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-SFDC-MIB::ciC3oShortPollEv11*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.3.1.2*

SNMP Trap Number : *11*

## Variables

The ShortPoll message contains the following variables:

Table 1. ShortPoll Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. CurrentTime

The current time.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv11CurrentTime
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.11.1

#### 6. LastPollingTime

The last polling time.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv11LastPollingTime
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.11.2

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## TimeTooClose

The end time specified is less than 1 minute past start time. Setting the interval to 1 minute and getting the data.

Level : *Info*

Log Message : *End time {StartTime} is less than 1 minute past start time {EndTime}. Setting interval to 1 minute and getting data.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-SFDC-MIB::ciC3oTimeTooCloseEv17*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.3.1.2*

SNMP Trap Number : *17*

## Variables

The TimeTooClose message contains the following variables:

Table 1. TimeTooClose Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. EndTime

The end time.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv17EndTime
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.3.1.2.1.17.1

## 6. StartTime

The start time.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv17StartTime
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.3.1.2.1.17.2

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## UnexpectedSFDCFault

Salesforce.com returned an unexpected fault that is not declared in the method signature.

Level : Severe

Log Message : *Salesforce.com returned an unexpected error: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3oUnexpectedSFDFaultEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.2

SNMP Trap Number : 1

## Variables

---

The UnexpectedSFDFault message contains the following variables:

Table 1. UnexpectedSFDFault Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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# Salesforce.com Internal Notifications

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Provides a comprehensive list of internal notifications sent from the Salesforce.com Module.

- [EndpointNull](#)  
The endpoint object provided to Salesforce.com activity is null.
- [MarshalError](#)  
An error occurred while writing output parameters in the activity.
- [SfdcErrorInternal](#)  
An internal error occurred in Salesforce.com connector.
- [UnmarshalError](#)  
An error occurred while reading input parameters in the activity.

**Parent topic:** [Salesforce.com Module](#)

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## EndpointNull

---

The endpoint object provided to Salesforce.com activity is null.

Level : *Severe*

Log Message : *Endpoint object is null.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3iEndpointNullEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.3

SNMP Trap Number : 2

## Variables

---

The EndpointNull message contains the following variables:

Table 1. EndpointNull Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

**Parent topic:** [Salesforce.com Internal Notifications](#)

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## MarshalError

---

An error occurred while writing output parameters in the activity.

Level : Severe

Log Message : *Error while trying to write output parameter sessionInfo. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3iMarshalErrorEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.3

SNMP Trap Number : 4

## Variables

---

The MarshalError message contains the following variables:

Table 1. MarshalError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [Salesforce.com Internal Notifications](#)

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## SfdcErrorInternal

---

An internal error occurred in Salesforce.com connector.

Level : *Severe*

Log Message : *Internal error in Salesforce.com connector. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3iSfdcErrorInternalEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.3

SNMP Trap Number : 1

## Variables

---

The SfdcErrorInternal message contains the following variables:

Table 1. SfdcErrorInternal Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [Salesforce.com Internal Notifications](#)

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## UnmarshalError

---

An error occurred while reading input parameters in the activity.

Level : Severe

Log Message : *Error while trying to read optional connection input parameter. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SFDC-MIB::ciC3iUnmarshalErrorEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.3.1.3

SNMP Trap Number : 3

## Variables

---

The UnmarshalError message contains the following variables:

Table 1. UnmarshalError Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [Salesforce.com Internal Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/sfdc/sfdc\\_internal\\_unmarshalerror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/sfdc/sfdc_internal_unmarshalerror_message.html)

## Scheduler Module

---

The Scheduler Module allows jobs to be started on a regular basis. This section contains details for the messages delivered from the Scheduler Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the Scheduler Module.

MIB Name : *CASTIRON-COMP-SCHEDULER-MIB*

MIB OID : .1.3.6.1.4.1.13336.2.2.3.5

The following table provides an alphabetical list of all notifications that can be issued by the Scheduler Module.

Table 1. Notifications issued by the Scheduler Module

Notification	Level	System	Description
<a href="#">ActivityException</a>	Severe	Orchestration	There was an error running scheduler activity.
<a href="#">SchedulerUnknownType</a>	Warning	Orchestration	The group configured in the activity is unknown.
<a href="#">SchedulerWarning</a>	Warning	Orchestration	There was an error in scheduler activity. Continuing to schedule further jobs.

- [Scheduler Operation Notifications](#)

Provides a comprehensive list of operation notifications sent from the Scheduler Module.

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## Scheduler Operation Notifications

Provides a comprehensive list of operation notifications sent from the Scheduler Module.

- [ActivityException](#)  
There was an error running scheduler activity.
- [SchedulerUnknownType](#)  
The group configured in the activity is unknown.
- [SchedulerWarning](#)  
There was an error in scheduler activity. Continuing to schedule further jobs.

**Parent topic:** [Scheduler Module](#)

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## ActivityException

There was an error running scheduler activity.

Level : *Severe*

Log Message : *Error: {Message}*.

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-SCHEDULER-MIB::ciC5oActivityExceptionEv1*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.5.1.2*

SNMP Trap Number : *1*

## Variables

---

The ActivityException message contains the following variables:

Table 1. ActivityException Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

**Parent topic:** [Scheduler Operation Notifications](#)

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## SchedulerUnknownType

---

The group configured in the activity is unknown.

Level : *Warning*

Log Message : Not a known type of group.

System : Orchestration

SNMP Name : CASTIRON-COMP-SCHEDULER-MIB::ciC5oScheduledUnknownTypeEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.5.1.2

SNMP Trap Number : 2

## Variables

---

The SchedulerUnknownType message contains the following variables:

Table 1. SchedulerUnknownType Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

Parent topic: [Scheduler Operation Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/scheduler/scheduler\\_operation\\_schedulerunknowntype\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/scheduler/scheduler_operation_schedulerunknowntype_message.html)

## SchedulerWarning

---

There was an error in scheduler activity. Continuing to schedule further jobs.

Level : *Warning*

Log Message : Got exception in "Schedule Job" activity: {Message}. Continuing to schedule jobs.

System : Orchestration

SNMP Name : CASTIRON-COMP-SCHEDULER-MIB::ciC5oSchedulerWarningEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.5.1.2

SNMP Trap Number : 3

## Variables

The SchedulerWarning message contains the following variables:

Table 1. SchedulerWarning Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Description of error occurred. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SCHEDULER-MIB::ciC5oEv3Message</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.5.1.2.1.3.1</li></ul>

Parent topic: [Scheduler Operation Notifications](#)

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## Siebel Module

The Siebel Module provides access to Oracle's Siebel CRM. This section contains details for the messages delivered from the Siebel Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the Siebel Module.

MIB Name : *CASTIRON-COMP-SIEBEL-MIB*

MIB OID : .1.3.6.1.4.1.13336.2.2.3.17

The following table provides an alphabetical list of all notifications that can be issued by the Siebel Module.

Table 1. Notifications issued by the Siebel Module

Notification	Level	System	Description
ActivateError	Severe	Orchestration	Error occurred while activating the specified activity.
ConfigURI	Severe	Orchestration	Specified activity name is listening on the specified uri and port.
ConnectError	Severe	Orchestration	The invoke operation failed because a connection to the server could not be established.
ConnectionPoolError	Warning	Orchestration	Error occurred while setting up connection pool for specified activity.
ConnectionRetry	Warning	Orchestration	The invoke operation failed while trying to connect to the server. This will cause a retry.
DataException	Severe	Orchestration	Data error occurred while executing the activity.
GeneralError	Severe	Orchestration	General error occurred while sending the response.
IOError	Severe	Orchestration	IO error occurred while processing request.
InternalError	Severe	Orchestration	Internal error occurred while processing request.
InvokeActivate	Warning	Orchestration	Error in setup of repository/connection-pool in activate of specified activity. Setup will be done at activity execution time.
InvokeDeactivateError	Warning	Orchestration	Error occurred while deactivating the specified activity.
InvokeException	Severe	Orchestration	Error occurred while executing the activity.
InvokeSuccessful	Info	Orchestration	Activity has successfully executed activity and outputted output parameter RESPONSE.
MissingLibraries	Severe	Orchestration	Config file jas.ini needs to be present before the JD Edwards Invoke activity can be run. Please upload jas.ini file and run again.
ReceiveDeactivateErr	Severe	Orchestration	Error occurred while deactivating the specified activity.
ReceiveError	Severe	Orchestration	Error occurred while receiving in the specified activity name.
ReceiveSuccessful	Info	Orchestration	Receive activity successfully received request and outputted output parameter RESPONSE.
RepositoryError	Warning	Orchestration	Error occurred while setting up repository for specified activity.
UnSupportedEncoding	Severe	Orchestration	Error occurred while processing unsupported encoding.

- [Siebel Connection Notifications](#)  
Provides a comprehensive list of connection notifications sent from the Siebel Module.
- [Siebel Operation Notifications](#)  
Provides a comprehensive list of operation notifications sent from the Siebel Module.
- [Siebel Internal Notifications](#)  
Provides a comprehensive list of internal notifications sent from the Siebel Module.

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## Siebel Connection Notifications

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Provides a comprehensive list of connection notifications sent from the Siebel Module.

- [ConnectError](#)  
The invoke operation failed because a connection to the server could not be established.
- [ConnectionRetry](#)  
The invoke operation failed while trying to connect to the server. This will cause a retry.
- [IOError](#)  
IO error occurred while processing request.

**Parent topic:** [Siebel Module](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/siebel/siebel\\_connection\\_notifications\\_list.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/siebel/siebel_connection_notifications_list.html)

## ConnectError

---

The invoke operation failed because a connection to the server could not be established.

Level : *Severe*

Log Message : *Unable to connect to server after {NumberOfRetryAttempts} attempts. The error is: {Message}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-SIEBEL-MIB::ciC17cConnectErrorEv1*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.17.1.1*

SNMP Trap Number : *1*

## Variables

---

The ConnectError message contains the following variables:

Table 1. ConnectError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. NumberOfRetryAttempts

The total number of attempted retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SIEBEL-MIB::ciC17cEv1NumberOfRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.17.1.1.1.1.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## ConnectionRetry

---

The invoke operation failed while trying to connect to the server. This will cause a retry.

Level : *Warning*

Log Message : *Unable to connect to server. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SIEBEL-MIB::ciC17cConnectionRetryEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.17.1.1

SNMP Trap Number : 2

## Variables

The ConnectionRetry message contains the following variables:

Table 1. ConnectionRetry Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>
<b>6. RetryAttemptNumber</b>  The current number of retries. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SIEBEL-MIB::ciC17cEv2RetryAttemptNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.17.1.1.1.2.2</li></ul>
<b>7. TotalRetryAttempts</b>  The specified number of attempts to connect to the server before stopping. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SIEBEL-MIB::ciC17cEv2TotalRetryAttempts</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.17.1.1.1.2.3</li></ul>

## 8. IntervalForRetries

The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SIEBEL-MIB::ciC17cEv2IntervalForRetries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.17.1.1.2.4

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## IOError

---

IO error occurred while processing request.

Level : *Severe*

Log Message : *IO Error while processing request. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SIEBEL-MIB::ciC17cIOErrorEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.17.1.1

SNMP Trap Number : 3

## Variables

---

The IOError message contains the following variables:

Table 1. IOError Message Variables

<b>1. SerialNumber</b> <p>The serial number of the appliance sending the trap.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b> <p>The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## Siebel Operation Notifications

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Provides a comprehensive list of operation notifications sent from the Siebel Module.

- [ActivateError](#)  
Error occurred while activating the specified activity.
- [ConfigURI](#)  
Specified activity name is listening on the specified uri and port.
- [ConnectionPoolError](#)  
Error occurred while setting up connection pool for specified activity.
- [DataException](#)  
Data error occurred while executing the activity.
- [InvokeActivate](#)  
Error in setup of repository/connection-pool in activate of specified activity. Setup will be done at activity execution time.
- [InvokeDeactivateError](#)  
Error occurred while deactivating the specified activity.
- [InvokeException](#)  
Error occurred while executing the activity.
- [InvokeSuccessful](#)  
Activity has successfully executed activity and outputted output parameter RESPONSE.
- [ReceiveDeactivateErr](#)  
Error occurred while deactivating the specified activity.
- [ReceiveError](#)  
Error occurred while receiving in the specified activity name.
- [ReceiveSuccessful](#)  
Receive activity successfully received request and outputted output parameter RESPONSE.
- [RepositoryError](#)  
Error occurred while setting up repository for specified activity.
- [UnSupportedEncoding](#)  
Error occurred while processing unsupported encoding.

**Parent topic:** [Siebel Module](#)

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## ActivateError

---

Error occurred while activating the specified activity.

Level : *Severe*

Log Message : *Error while activating the {ActivityName} activity. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SIEBEL-MIB::ciC17oActivateErrorEv11

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.17.1.2

SNMP Trap Number : 11

## Variables

---

The ActivateError message contains the following variables:

Table 1. ActivateError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>  Activity name which caused the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SIEBEL-MIB::ciC17oEv11ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.17.1.2.1.11.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## ConfigURI

---

Specified activity name is listening on the specified uri and port.

Level : *Severe*

Log Message : *{ActivityName}* listening for events on URI: |"*{UriValue}*"| and port: |"*{PortValue}*"|.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SIEBEL-MIB::ciC17oConfigURIEv13

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.17.1.2

SNMP Trap Number : 13

## Variables

---

The ConfigURI message contains the following variables:

Table 1. ConfigURI Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

<b>2. Severity</b>
--------------------

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

<b>3. JobID</b>
-----------------

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. ActivityName

Activity name which is listening on the uri and port specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SIEBEL-MIB::ciC17oEv13ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.17.1.2.1.13.1

#### 6. UriValue

The URI the server is listening on.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SIEBEL-MIB::ciC17oEv13UriValue
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.17.1.2.1.13.2

#### 7. PortValue

The port number the server is listening on.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SIEBEL-MIB::ciC17oEv13PortValue
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.17.1.2.1.13.3

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## ConnectionPoolError

Error occurred while setting up connection pool for specified activity.

Level : *Warning*

Log Message : *Error while setting up connection pool for {ActivityName} activity. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SIEBEL-MIB::ciC17oConnectionPoolErrorEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.17.1.2

SNMP Trap Number : 2

## Variables

The ConnectionPoolError message contains the following variables:

Table 1. ConnectionPoolError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>  Activity name which caused the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SIEBEL-MIB::ciC17oEv2ActivityName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.17.1.2.1.2.1</li></ul>
<b>6. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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# DataException

---

Data error occurred while executing the activity.

Level : *Severe*

Log Message : *Data error while executing the activity. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SIEBEL-MIB::ciC17oDataExceptionEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.17.1.2

SNMP Trap Number : 5

## Variables

---

The DataException message contains the following variables:

Table 1. DataException Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/siebel/siebel\\_operation\\_dataexception\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/siebel/siebel_operation_dataexception_message.html)

## InvokeActivate

Error in setup of repository/connection-pool in activate of specified activity. Setup will be done at activity execution time.

Level : *Warning*

Log Message : *Error in setup of repository/connection-pool in activate of {ActivityName}. Setup to be done at activity execution time. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SIEBEL-MIB::ciC17oInvokeActivateEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.17.1.2

SNMP Trap Number : 3

## Variables

The InvokeActivate message contains the following variables:

Table 1. InvokeActivate Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>

Activity name which caused the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SIEBEL-MIB::ciC17oEv3ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.17.1.2.1.3.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## InvokeDeactivateError

---

Error occurred while deactivating the specified activity.

Level : *Warning*

Log Message : *Error while deactivating the {ActivityName} activity. Discarding error: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SIEBEL-MIB::ciC17oInvokeDeactivateErrorEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.17.1.2

SNMP Trap Number : 4

## Variables

---

The InvokeDeactivateError message contains the following variables:

Table 1. InvokeDeactivateError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. ActivityName

Activity name which caused the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SIEBEL-MIB::ciC17oEv4ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.17.1.2.1.4.1

#### 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## InvokeException

---

Error occurred while executing the activity.

Level : Severe

Log Message : *Error while executing the activity. The error is: {Message}*

System : Orchestration

SNMP Name : CASTIRON-COMP-SIEBEL-MIB::ciC17oInvokeExceptionEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.17.1.2

SNMP Trap Number : 6

## Variables

---

The InvokeException message contains the following variables:

Table 1. InvokeException Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## InvokeSuccessful

---

Activity has successfully executed activity and outputted output parameter RESPONSE.

Level : *Info*

Log Message : *Successfully executed activity and outputted output parameter RESPONSE.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SIEBEL-MIB::ciC17oInvokeSuccessfulEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.17.1.2

## Variables

---

The InvokeSuccessful message contains the following variables:

Table 1. InvokeSuccessful Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>

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## ReceiveDeactivateErr

---

Error occurred while deactivating the specified activity.

Level : *Severe*

Log Message : *Error while deactivating the {ActivityName} activity. Discarding error: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SIEBEL-MIB::ciC17oReceiveDeactivateErrEv12

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.17.1.2

## Variables

---

The ReceiveDeactivateErr message contains the following variables:

Table 1. ReceiveDeactivateErr Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. ActivityName</b>
Activity name which caused the error.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SIEBEL-MIB::ciC17oEv12ActivityName</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.17.1.2.1.12.1</li> </ul>
<b>6. Message</b>
Textual description of the error.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.2</li> </ul>

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## ReceiveError

Error occurred while receiving in the specified activity name.

Level : *Severe*

Log Message : *Error while receiving in {ActivityName} activity. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SIEBEL-MIB::ciC17oReceiveErrorEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.17.1.2

SNMP Trap Number : 9

## Variables

The ReceiveError message contains the following variables:

Table 1. ReceiveError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ActivityName</b>  Activity name which caused the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SIEBEL-MIB::ciC17oEv9ActivityName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.17.1.2.1.9.1</li></ul>
<b>6. Message</b>

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

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## ReceiveSuccessful

---

Receive activity successfully received request and outputted output parameter RESPONSE.

Level : *Info*

Log Message : *Successfully received request and outputted output parameter RESPONSE.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SIEBEL-MIB::ciC17oReceiveSuccessfulEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.17.1.2

SNMP Trap Number : 8

## Variables

---

The ReceiveSuccessful message contains the following variables:

Table 1. ReceiveSuccessful Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## RepositoryError

---

Error occurred while setting up repository for specified activity.

Level : *Warning*

Log Message : *Error while setting up repository for {ActivityName} activity. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SIEBEL-MIB::ciC17oRepositoryErrorEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.17.1.2

SNMP Trap Number : 1

## Variables

---

The RepositoryError message contains the following variables:

Table 1. RepositoryError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. ActivityName

Activity name which caused the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SIEBEL-MIB::ciC17oEv1ActivityName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.17.1.2.1.1.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## UnSupportedEncoding

---

Error occurred while processing unsupported encoding.

Level : Severe

Log Message : *Error while processing unsupported encoding. The error is: {Message}*

System : Orchestration

SNMP Name : CASTIRON-COMP-SIEBEL-MIB::ciC17oUnSupportedEncodingEv10

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.17.1.2

SNMP Trap Number : 10

## Variables

---

The UnSupportedEncoding message contains the following variables:

Table 1. UnSupportedEncoding Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [Siebel Operation Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/siebel/siebel\\_operation\\_unsupported\\_encoding\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/siebel/siebel_operation_unsupported_encoding_message.html)

## Siebel Internal Notifications

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Provides a comprehensive list of internal notifications sent from the Siebel Module.

- [GeneralError](#)  
General error occurred while sending the response.
- [InternalError](#)  
Internal error occurred while processing request.
- [MissingLibraries](#)  
Config file jas.ini needs to be present before the JD Edwards Invoke activity can be run. Please upload jas.ini file and run again.

**Parent topic:** [Siebel Module](#)

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## GeneralError

General error occurred while sending the response.

Level : *Severe*

Log Message : *General error while sending the response. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SIEBEL-MIB::ciC17iGeneralErrorEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.17.1.3

SNMP Trap Number : 1

## Variables

The GeneralError message contains the following variables:

Table 1. GeneralError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

**Parent topic:** [Siebel Internal Notifications](#)

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## InternalError

---

Internal error occurred while processing request.

Level : *Severe*

Log Message : *Error while processing request. The error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-SIEBEL-MIB::ciC17iInternalErrorEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.17.1.3

SNMP Trap Number : 2

## Variables

---

The InternalError message contains the following variables:

Table 1. InternalError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [Siebel Internal Notifications](#)

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## MissingLibraries

---

Config file jas.ini needs to be present before the JD Edwards Invoke activity can be run. Please upload jas.ini file and run again.

Level : Severe

Log Message : *jas.ini file needs to be present before the JD Edwards Invoke activity can be run. Please upload jas.ini file and run again.*

System : Orchestration

SNMP Name : CASTIRON-COMP-SIEBEL-MIB::ciC17iMissingLibrariesEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.17.1.3

SNMP Trap Number : 3

## Variables

---

The MissingLibraries message contains the following variables:

Table 1. MissingLibraries Message Variables

<b>1. SerialNumber</b> <p>The serial number of the appliance sending the trap.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b> <p>The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

**Parent topic:** Siebel Internal Notifications

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## Web Service Module

---

The Web Service Module provides activities to act as a Web Service client or server. This section contains details for the messages delivered from the Web Service Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the Web Service Module.

MIB Name : *CASTIRON-COMP-WS-MIB*

MIB OID : .1.3.6.1.4.1.13336.2.2.3.18

The following table provides an alphabetical list of all notifications that can be issued by the Web Service Module.

Table 1. Notifications issued by the Web Service Module

Notification	Level	System	Description
AlreadyRegistered	Severe	Orchestration	The URI/port is already registered by the Web Service activity.
CleanUpMessage	Severe	Orchestration	Unable to process the request. Additional information about the error can be found on the Web Management Console.
ConnectFailed	Severe	Orchestration	The webservice operation failed because a connection to the server could not be established.
ConnectRetry	Warning	Orchestration	The webservice operation failed while trying to connect to the server. This will cause a retry.
DataMessageAccepted	Info	Orchestration	SOAP message has been accepted by the Integration Appliance.
MissingProtocol	Warning	Orchestration	Please put the protocol used in front of input parameter location.
NotRegistered	Severe	Orchestration	The URI/port has not been registered by the Web Service activity.
OperationNameNull	Severe	Orchestration	Operation name must not be null or empty.
TaskContextError	Severe	Orchestration	Error occurred while processing Web Service activity due to lost task context.
TransportInfo	Info	Orchestration	The provide activity is started on local transport for the URI.
UriDeprecated	Warning	Orchestration	Web Service Module has deprecated the input parameter httpheaders/uri. The specified value will be ignored.
WSFaultString	Severe	Orchestration	The fault string returned by the WebService activity.
WebServiceException	Severe	Orchestration	Error occurred while processing Web Service activity.

- [Web Service Connection Notifications](#)  
Provides a comprehensive list of connection notifications sent from the Web Service Module.
- [Web Service Operation Notifications](#)  
Provides a comprehensive list of operation notifications sent from the Web Service Module.
- [Web Service Internal Notifications](#)  
Provides a comprehensive list of internal notifications sent from the Web Service Module.

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## Web Service Connection Notifications

---

Provides a comprehensive list of connection notifications sent from the Web Service Module.

- [ConnectFailed](#)  
The webservice operation failed because a connection to the server could not be established.
- [ConnectRetry](#)  
The webservice operation failed while trying to connect to the server. This will cause a retry.

**Parent topic:** [Web Service Module](#)

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## ConnectFailed

---

The webservice operation failed because a connection to the server could not be established.

Level : *Severe*

Log Message : *Error sending SOAP request to location: {LocationName}. Error is: {Message}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-WS-MIB::ciC18cConnectFailedEv2*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.18.1.1*

SNMP Trap Number : *2*

## Variables

---

The ConnectFailed message contains the following variables:

Table 1. ConnectFailed Message Variables

**1. SerialNumber**

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. LocationName

The specified location which was not being able to connect.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18cEv2LocationName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.18.1.1.1.2.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [Web Service Connection Notifications](#)

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## ConnectRetry

The webservice operation failed while trying to connect to the server. This will cause a retry.

Level : *Warning*

Log Message : Unable to send the SOAP request to {LocationName}. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will retry again in {IntervalForRetries} second(s).

System : Orchestration

SNMP Name : CASTIRON-COMP-WS-MIB::ciC18cConnectRetryEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.18.1.1

SNMP Trap Number : 1

## Variables

---

The ConnectRetry message contains the following variables:

Table 1. ConnectRetry Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. LocationName</b>  The specified location which was not being able to connect. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-WS-MIB::ciC18cEv1LocationName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.18.1.1.1.1</li></ul>
<b>6. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>
<b>7. RetryAttemptNumber</b>

The current number of retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18cEv1RetryAttemptNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.18.1.1.1.3

## 8. TotalRetryAttempts

The specified number of attempts to connect to the server before stopping.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18cEv1TotalRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.18.1.1.1.4

## 9. IntervalForRetries

The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18cEv1IntervalForRetries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.18.1.1.1.5

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# Web Service Operation Notifications

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Provides a comprehensive list of operation notifications sent from the Web Service Module.

- [AlreadyRegistered](#)  
The URI/port is already registered by the Web Service activity.
- [CleanUpMessage](#)  
Unable to process the request. Additional information about the error can be found on the Web Management Console.
- [DataMessageAccepted](#)  
SOAP message has been accepted by the Integration Appliance.
- [MissingProtocol](#)  
Please put the protocol used in front of input parameter location.
- [NotRegistered](#)  
The URI/port has not been registered by the Web Service activity.
- [OperationNameNull](#)  
Operation name must not be null or empty.
- [TransportInfo](#)  
The provide activity is started on local transport for the URI.
- [UriDeprecated](#)  
Web Service Module has deprecated the input parameter httpheaders/uri. The specified value will be ignored.
- [WSFaultString](#)  
The fault string returned by the WebService activity.
- [WebServiceException](#)  
Error occurred while processing Web Service activity.

**Parent topic:** [Web Service Module](#)

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## AlreadyRegistered

---

The URI/port is already registered by the Web Service activity.

Level : *Severe*

Log Message : *[URI: {Uri}, Port: {Port}, Operation Name: {OperationName}] Web Service has already been registered. Key: {RegistrationKey}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WS-MIB::ciC18oAlreadyRegisteredEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.18.1.2

SNMP Trap Number : 7

## Variables

---

The AlreadyRegistered message contains the following variables:

Table 1. AlreadyRegistered Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Uri</b>

The URI which is already registered.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18oEv7Uri
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.18.1.2.1.7.1

## 6. Port

The port which is already registered.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18oEv7Port
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.18.1.2.1.7.2

## 7. OperationName

The operation name which was specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18oEv7OperationName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.18.1.2.1.7.3

## 8. RegistrationKey

Key used to identify this URI/Port/Operation

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18oEv7RegistrationKey
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.18.1.2.1.7.4

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## CleanUpMessage

---

Unable to process the request. Additional information about the error can be found on the Web Management Console.

Level : *Severe*

Log Message : *Unable to process the request. Additional information about the error can be found on the Web Management Console.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WS-MIB::ciC18oCleanUpMessageEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.18.1.2

SNMP Trap Number : 9

## Variables

---

The CleanUpMessage message contains the following variables:

Table 1. CleanUpMessage Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## DataMessageAccepted

---

SOAP message has been accepted by the Integration Appliance.

Level : *Info*

Log Message : *SOAP message has been accepted by the Integration Appliance.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WS-MIB::ciC18oDataMessageAcceptedEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.18.1.2

SNMP Trap Number : 1

## Variables

---

The DataMessageAccepted message contains the following variables:

Table 1. DataMessageAccepted Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## MissingProtocol

---

Please put the protocol used in front of input parameter location.

Level : *Warning*

Log Message : *Please put the protocol used (e.g. {Protocol}) in front of the input parameter location: {LocationName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WS-MIB::ciC18oMissingProtocolEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.18.1.2

SNMP Trap Number : 5

## Variables

---

The MissingProtocol message contains the following variables:

Table 1. MissingProtocol Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Protocol

The protocol value that can be specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18oEv5Protocol
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.18.1.2.1.5.1

## 6. LocationName

The location name parameter before which protocol has to be specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18oEv5LocationName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.18.1.2.1.5.2

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## NotRegistered

---

The URI/port has not been registered by the Web Service activity.

Level : Severe

Log Message : [URI: {Uri}, Port: {Port}, Operation Name: {OperationName}] has not been registered. Key: {KeyName}

System : Orchestration

SNMP Name : CASTIRON-COMP-WS-MIB::ciC18oNotRegisteredEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.18.1.2

SNMP Trap Number : 8

## Variables

---

The NotRegistered message contains the following variables:

Table 1. NotRegistered Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Uri</b>  The URI which is not registered. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-WS-MIB::ciC18oEv8Uri</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.18.1.2.1.8.1</li></ul>
<b>6. Port</b>  The port which is not registered. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-WS-MIB::ciC18oEv8Port</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.18.1.2.1.8.2</li></ul>
<b>7. OperationName</b>  The operation name which was specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18oEv8OperationName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.18.1.2.1.8.3

## 8. KeyName

The key name which was specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18oEv8KeyName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.18.1.2.1.8.4

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## OperationNameNull

Operation name must not be null or empty.

Level : *Severe*

Log Message : *Operation name must not be null or empty!*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WS-MIB::ciC18oOperationNameNullEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.18.1.2

SNMP Trap Number : 2

## Variables

The OperationNameNull message contains the following variables:

Table 1. OperationNameNull Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## TransportInfo

---

The provide activity is started on local transport for the URI.

Level : *Info*

Log Message : *The provide activity is started on local transport for the URI: {URI}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WS-MIB::ciC18oTransportInfoEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.18.1.2

SNMP Trap Number : 10

## Variables

---

The TransportInfo message contains the following variables:

Table 1. TransportInfo Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

<b>2. Severity</b>
--------------------

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

<b>3. JobID</b>
-----------------

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. URI

URI at which provie activity was started.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18oEv10URI
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.18.1.2.1.10.1

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## UriDeprecated

Web Service Module has deprecated the input parameter httpheaders/uri. The specified value will be ignored.

Level : *Warning*

Log Message : *Web Service Module has deprecated the input parameter "httpheaders/uri". The value: {Value} will be ignored. Please set the URL (e.g. http://www.castiron.com/WebService) at the location in the endpoint panel or at the input parameter "location".*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WS-MIB::ciC18oUriDeprecatedEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.18.1.2

SNMP Trap Number : 6

## Variables

The UriDeprecated message contains the following variables:

Table 1. UriDeprecated Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Value

The value which will be ignored due to deprecated input parameter.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18oEv6Value
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.18.1.2.1.6.1

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## WSFaultString

---

The fault string returned by the WebService activity.

Level : Severe

Log Message : {Message}

System : Orchestration

SNMP Name : CASTIRON-COMP-WS-MIB::ciC18oWSFaultStringEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.18.1.2

SNMP Trap Number : 3

## Variables

---

The WSFaultString message contains the following variables:

Table 1. WSFaultString Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## WebServiceException

---

Error occurred while processing Web Service activity.

Level : *Severe*

Log Message : *Exception while processing Web Service activity. Error message: {Message}. Caused by: {Cause}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WS-MIB::ciC18oWebServiceExceptionEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.18.1.2

SNMP Trap Number : 4

## Variables

The WebServiceException message contains the following variables:

Table 1. WebServiceException Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>
<b>6. Cause</b>  The cause of the error message. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-WS-MIB::ciC18oEv4Cause</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.18.1.2.1.4.2</li></ul>

**Parent topic:** [Web Service Operation Notifications](#)

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# Web Service Internal Notifications

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Provides a comprehensive list of internal notifications sent from the Web Service Module.

- **TaskContextError**  
Error occurred while processing Web Service activity due to lost task context.

**Parent topic:** [Web Service Module](#)

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## TaskContextError

---

Error occurred while processing Web Service activity due to lost task context.

Level : *Severe*

Log Message : *Exception while processing Web Service activity. Error message: {Message}. The task context is lost. The appliance may have been restarted, losing the task context that cannot be saved on the disk.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WS-MIB::ciC18iTTaskContextErrorEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.18.1.3

SNMP Trap Number : 1

## Variables

---

The TaskContextError message contains the following variables:

Table 1. TaskContextError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [Web Service Internal Notifications](#)

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## WebSphere MQ Module

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The WebSphere MQ module provides activities for communicating with IBM WebSphere MQ servers. This section contains details for the messages delivered from the WebSphere MQ Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the WebSphere MQ Module.

MIB Name : *CASTIRON-COMP-MQ-MIB*

MIB OID : .1.3.6.1.4.1.13336.2.2.3.13

The following table provides an alphabetical list of all notifications that can be issued by the WebSphere MQ Module.

Table 1. Notifications issued by the WebSphere MQ Module

Notification	Level	System	Description
ConnectRetry	Warning	Orchestration	The MQ operation failed while trying to connect to the server. This will cause a retry.
ConnectionError	Severe	Orchestration	The MQ operation failed because a connection to the server could not be established.
DetailsOpen	Info	Orchestration	Opening the queue with set all privileges as specified.
DuplicateFound	Info	Orchestration	Discarding the duplicate message found in get activity.
FormatError	Severe	Orchestration	The message format field specified is invalid. Supported formats are MQSTR, MQHRF2, and no format.
FormatWarning	Warning	Orchestration	Activity expected string data (MQFMT_STRING), but the message is of another format.
GetFailure	Severe	Orchestration	The get activity was not able to get messages from queue.
InputParamNull	Severe	Orchestration	The input parameter specified is of zero length.
InternalFailure	Severe	Orchestration	There was an internal error in MQ activity.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
<a href="#">MQConnectionInfo</a>	Info	Orchestration	The complete information about MQ Endpoint details.
<a href="#">MQMDFormatError</a>	Severe	Orchestration	MQMD header input parameter format is incorrect.
<a href="#">MQProtocolWarning</a>	Warning	Orchestration	Received warning from queue manager with specified MQ reason code.
<a href="#">MQPutDetails</a>	Info	Orchestration	Putting in queue with set all privileges as specified.
<a href="#">MQPutFailure</a>	Severe	Orchestration	MQ was unable to put message on queue due to specified error code.
<a href="#">MQRFHHeaderError</a>	Severe	Orchestration	MQRFH2 header input parameter format is incorrect.
<a href="#">MessageDelivered</a>	Info	Orchestration	The MQ message was successfully delivered to the specified queue.
<a href="#">MessageRetrieved</a>	Info	Orchestration	Retrieved a message from the queue.
<a href="#">NoMessage</a>	Info	Orchestration	There is no message available on the queue.
<a href="#">NoMessageFailure</a>	Severe	Orchestration	The MQ operation failed as there was no message on queue on server.
<a href="#">NoMessageRetry</a>	Warning	Orchestration	The MQ operation failed as there was no message on queue on server. This will cause a retry.
<a href="#">PollFailure</a>	Severe	Orchestration	The poll activity was not able to get messages from queue.
<a href="#">RFHFormatError</a>	Severe	Orchestration	Error encountered unmarshaling the MQRFH2 header.
<a href="#">ReasonCode</a>	Info	Orchestration	The reason code for the MQ exception caught.

- [WebSphere MQ Connection Notifications](#)

Provides a comprehensive list of connection notifications sent from the WebSphere MQ Module.

- [WebSphere MQ Operation Notifications](#)

Provides a comprehensive list of operation notifications sent from the WebSphere MQ Module.

- [WebSphere MQ Internal Notifications](#)

Provides a comprehensive list of internal notifications sent from the WebSphere MQ Module.

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## WebSphere MQ Connection Notifications

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Provides a comprehensive list of connection notifications sent from the WebSphere MQ Module.

- [ConnectRetry](#)

The MQ operation failed while trying to connect to the server. This will cause a retry.

- [ConnectionError](#)

The MQ operation failed because a connection to the server could not be established.

- [MQConnectionInfo](#)

The complete information about MQ Endpoint details.

**Parent topic:** [WebSphere MQ Module](#)

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## ConnectRetry

---

The MQ operation failed while trying to connect to the server. This will cause a retry.

Level : *Warning*

Log Message : *Unable to connect to the Queue Manager "{QueueManager}"*. MQ returned error code "*{ErrorCode}*". Attempt *{RetryAttemptNumber}* of *{TotalRetryAttempts}*. Will try again in *{IntervalForRetries}* second(s).

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13cConnectRetryEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.1

SNMP Trap Number : 2

## Variables

---

The ConnectRetry message contains the following variables:

Table 1. ConnectRetry Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. QueueManager</b>  The name of the queue manager which activity was not able to connect.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13cEv2QueueManager
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.1.1.2.1

## 6. ErrorCode

The error code returned by the MQ server.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13cEv2ErrorCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.1.1.2.2

## 7. RetryAttemptNumber

The current number of retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13cEv2RetryAttemptNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.1.1.2.3

## 8. TotalRetryAttempts

The specified number of attempts to connect to the server before stopping.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13cEv2TotalRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.1.1.2.4

## 9. IntervalForRetries

The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13cEv2IntervalForRetries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.1.1.2.5

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## ConnectionError

The MQ operation failed because a connection to the server could not be established.

Level : Severe

Log Message : *Unable to connect to the Queue Manager "{QueueManager}" after {NumberOfRetryAttempts} attempt(s). MQ returned error code "{ErrorCode}".*

System : Orchestration

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13cConnectionErrorEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.1

SNMP Trap Number : 3

## Variables

The ConnectionError message contains the following variables:

Table 1. ConnectionError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. QueueManager</b>  The name of the queue manager which activity was not able to connect. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MQ-MIB::ciC13cEv3QueueManager</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.13.1.1.1.3.1</li></ul>
<b>6. NumberOfRetryAttempts</b>  The total number of attempted retries. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MQ-MIB::ciC13cEv3NumberOfRetryAttempts</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.13.1.1.1.3.2</li></ul>
<b>7. ErrorCode</b>  The error code returned by the MQ server. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MQ-MIB::ciC13cEv3ErrorCode</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.13.1.1.1.3.3</li></ul>

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## MQConnectionInfo

---

The complete information about MQ Endpoint details.

Level : *Info*

Log Message : *MQ Endpoint Details: Host: {HostName}, Port: {PortNumber}, User: {UserName}, Queue Manager: {QueueManager}, Channel: {Channel}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13cMQConnectionInfoEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.1

SNMP Trap Number : 1

## Variables

---

The MQConnectionInfo message contains the following variables:

Table 1. MQConnectionInfo Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. HostName</b>

The host name specified in the endpoint.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13cEv1HostName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.1.1.1

## 6. PortNumber

The port number specified in the endpoint.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13cEv1PortNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.1.1.2

## 7. UserName

The user name specified in the endpoint.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13cEv1UserName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.1.1.3

## 8. QueueManager

The queue manager specified in the endpoint.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13cEv1QueueManager
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.1.1.4

## 9. Channel

The channel specified in the endpoint.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13cEv1Channel
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.1.1.5

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# WebSphere MQ Operation Notifications

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Provides a comprehensive list of operation notifications sent from the WebSphere MQ Module.

- [DetailsOpen](#)  
Opening the queue with set all privileges as specified.
- [DuplicateFound](#)  
Discarding the duplicate message found in get activity.
- [FormatError](#)  
The message format field specified is invalid. Supported formats are MQSTR, MQHRF2, and no format.
- [FormatWarning](#)  
Activity expected string data (MQFMT\_STRING), but the message is of another format.

- [GetFailure](#)  
The get activity was not able to get messages from queue.
- [MQMDFormatError](#)  
MQMD header input parameter format is incorrect.
- [MQProtocolWarning](#)  
Received warning from queue manager with specified MQ reason code.
- [MQPutDetails](#)  
Putting in queue with set all privileges as specified.
- [MQPutFailure](#)  
MQ was unable to put message on queue due to specified error code.
- [MQRFHHeaderError](#)  
MQRFH2 header input parameter format is incorrect.
- [MessageDelivered](#)  
The MQ message was successfully delivered to the specified queue.
- [MessageRetrieved](#)  
Retrieved a message from the queue.
- [NoMessage](#)  
There is no message available on the queue.
- [NoMessageFailure](#)  
The MQ operation failed as there was no message on queue on server.
- [NoMessageRetry](#)  
The MQ operation failed as there was no message on queue on server. This will cause a retry.
- [PollFailure](#)  
The poll activity was not able to get messages from queue.
- [RFHFormatError](#)  
Error encountered unmarshaling the MQRFH2 header.
- [ReasonCode](#)  
The reason code for the MQ exception caught.

**Parent topic:** [WebSphere MQ Module](#)

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## DetailsOpen

---

Opening the queue with set all privileges as specified.

Level : *Info*

Log Message : *Opening the queue with set all privileges as {Value}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-MQ-MIB::ciC13oDetailsOpenEv18*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.13.1.2*

SNMP Trap Number : *18*

## Variables

---

The DetailsOpen message contains the following variables:

Table 1. DetailsOpen Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Value

Value of set all privileges set to true or false.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv18Value
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.13.1.2.1.18.1

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## DuplicateFound

---

Discarding the duplicate message found in get activity.

Level : *Info*

Log Message : *Duplicate message found, discarding.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13oDuplicateFoundEv14

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.2

## Variables

---

The DuplicateFound message contains the following variables:

Table 1. DuplicateFound Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>

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## FormatError

---

The message format field specified is invalid. Supported formats are MQSTR, MQHRF2, and no format.

Level : *Severe*

Log Message : *The message format field "{Format}" is invalid. Supported formats are MQSTR, MQHRF2, and no format.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13oFormatErrorEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.2

## Variables

---

The FormatError message contains the following variables:

Table 1. FormatError Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. Format</b>
The invalid format specified.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MQ-MIB::ciC13oEv8Format</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.13.1.2.1.8.1</li> </ul>

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## FormatWarning

---

Activity expected string data (MQFMT\_STRING), but the message is of another format.

Level : *Warning*

Log Message : *Activity expected string data (MQFMT\_STRING), but the message is of format "{Format}"*.

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-MQ-MIB::ciC13oFormatWarningEv9*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.13.1.2*

SNMP Trap Number : *9*

## Variables

---

The FormatWarning message contains the following variables:

Table 1. FormatWarning Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Format</b>  The format specified.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MQ-MIB::ciC13oEv9Format</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.13.1.2.1.9.1</li></ul>

Parent topic: [WebSphere MQ Operation Notifications](#)

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## GetFailure

The get activity was not able to get messages from queue.

Level : Severe

Log Message : *Unable to get message from queue {QueueName}. MQ returned error code {ErrorCode}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13oGetFailureEv7

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.2

SNMP Trap Number : 7

## Variables

The GetFailure message contains the following variables:

Table 1. GetFailure Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. QueueName</b>  The name of the queue. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MQ-MIB::ciC13oEv7QueueName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.13.1.2.1.7.1</li></ul>

## 6. ErrorCode

The error code returned by the MQ server.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv7ErrorCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.2.1.7.2

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## MQMDFormatError

---

MQMD header input parameter format is incorrect.

Level : *Severe*

Log Message : *MQMD header input parameter format is incorrect; {Header}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13oMQMDFormatErrorEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.2

SNMP Trap Number : 10

## Variables

---

The MQMDFormatError message contains the following variables:

Table 1. MQMDFormatError Message Variables

<b>1. SerialNumber</b> <p>The serial number of the appliance sending the trap.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b> <p>The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Header

The header specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv10Header
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.2.1.10.1

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## MQProtocolWarning

---

Received warning from queue manager with specified MQ reason code.

Level : *Warning*

Log Message : *Received warning from queue manager. MQ reason code is {ReasonCode}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13oMQProtocolWarningEv16

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.2

SNMP Trap Number : 16

## Variables

---

The MQProtocolWarning message contains the following variables:

Table 1. MQProtocolWarning Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. ReasonCode

The reason code for the MQ exception.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv16ReasonCode
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.13.1.2.1.16.1

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## MQPutDetails

---

Putting in queue with set all privileges as specified.

Level : *Info*

Log Message : *Putting in queue with set all privileges as {Value}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13oMQPutDetailsEv17

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.2

SNMP Trap Number : 17

## Variables

---

The MQPutDetails message contains the following variables:

Table 1. MQPutDetails Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. Value</b>
Value of set all privileges set to true or false.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MQ-MIB::ciC13oEv17Value</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.13.1.2.1.17.1</li> </ul>

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## MQPutFailure

---

MQ was unable to put message on queue due to specified error code.

Level : Severe

Log Message : *Unable to put message on queue {QueueManager}. MQ returned error code {ErrorCode}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13oMQPutFailureEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.2

SNMP Trap Number : 3

---

## Variables

---

The MQPutFailure message contains the following variables:

Table 1. MQPutFailure Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. QueueManager</b>
The name of the queue manager.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MQ-MIB::ciC13oEv3QueueManager</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.13.1.2.1.3.1</li> </ul>
<b>6. ErrorCode</b>
The error code returned by the MQ server.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MQ-MIB::ciC13oEv3ErrorCode</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.13.1.2.1.3.2</li> </ul>

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## MQRFHeaderError

---

MQRFH2 header input parameter format is incorrect.

Level : *Severe*

Log Message : *MQRFH2 header input parameter format is incorrect.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13oMQRFHHeaderErrorEv11

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.2

SNMP Trap Number : 11

## Variables

The MQRFHHeaderError message contains the following variables:

Table 1. MQRFHHeaderError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Header</b>  The header specified. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MQ-MIB::ciC13oEv11Header</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.13.1.2.1.11.1</li></ul>

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## MessageDelivered

---

The MQ message was successfully delivered to the specified queue.

Level : *Info*

Log Message : *Message successfully delivered to queue {QueueManager}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13oMessageDeliveredEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.2

SNMP Trap Number : 4

## Variables

---

The MessageDelivered message contains the following variables:

Table 1. MessageDelivered Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. QueueManager</b>  The name of the queue manager. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MQ-MIB::ciC13oEv4QueueManager</li></ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.2.1.4.1

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## MessageRetrieved

---

Retrieved a message from the queue.

Level : *Info*

Log Message : *Message of {QueueName} bytes retrieved from queue "{NumberOfBytes}"*.

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13oMessageRetrievedEv15

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.2

SNMP Trap Number : 15

## Variables

---

The MessageRetrieved message contains the following variables:

Table 1. MessageRetrieved Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> </ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. NumberOfBytes

The number of bytes of the message.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv15NumberOfBytes
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.13.1.2.1.15.1

## 6. QueueName

The name of the queue.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv15QueueName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.13.1.2.1.15.2

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## NoMessage

There is no message available on the queue.

Level : *Info*

Log Message : *No message available on queue {Queue}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13oNoMessageEv5

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.13.1.2

SNMP Trap Number : 5

## Variables

The NoMessage message contains the following variables:

Table 1. NoMessage Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Queue

The name of the queue.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv5Queue
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.13.1.2.1.5.1

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## NoMessageFailure

The MQ operation failed as there was no message on queue on server.

Level : Severe

Log Message : *No message available on queue "{QueueManager}" after {NumberOfRetryAttempts} attempt(s).*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13oNoMessageFailureEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.2

SNMP Trap Number : 2

## Variables

The NoMessageFailure message contains the following variables:

Table 1. NoMessageFailure Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. QueueManager

The name of the queue manager which activity was not able to connect.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv2QueueManager
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.13.1.2.1.2.1

## 6. NumberOfRetryAttempts

The total number of attempted retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv2NumberOfRetryAttempts
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.13.1.2.1.2.2

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## NoMessageRetry

The MQ operation failed as there was no message on queue on server. This will cause a retry.

Level : *Warning*

Log Message : No message available on queue "{QueueManager}". Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).

System : Orchestration

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13oNoMessageRetryEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.2

SNMP Trap Number : 1

## Variables

---

The NoMessageRetry message contains the following variables:

Table 1. NoMessageRetry Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. QueueManager</b>  The name of the queue manager which activity was not able to connect. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MQ-MIB::ciC13oEv1QueueManager</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.13.1.2.1.1.1</li></ul>
<b>6. RetryAttemptNumber</b>  The current number of retries. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MQ-MIB::ciC13oEv1RetryAttemptNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.13.1.2.1.1.2</li></ul>
<b>7. TotalRetryAttempts</b>

The specified number of attempts to connect to the server before stopping.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv1TotalRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.2.1.1.3

## 8. IntervalForRetries

The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv1IntervalForRetries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.2.1.1.4

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## PollFailure

---

The poll activity was not able to get messages from queue.

Level : *Severe*

Log Message : *Unable to get message from queue {QueueName}. MQ returned error code {ErrorCode}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13oPollFailureEv6

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.2

SNMP Trap Number : 6

## Variables

---

The PollFailure message contains the following variables:

Table 1. PollFailure Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. QueueName

The name of the queue.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv6QueueName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.2.1.6.1

#### 6. ErrorCode

The error code returned by the MQ server.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv6ErrorCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.2.1.6.2

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## RFHFormatError

---

Error encountered unmarshaling the MQRFH2 header.

Level : *Severe*

Log Message : *Error encountered unmarshaling the MQRFH2 header: {Message}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13oRFHFormatErrorEv12

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.2

SNMP Trap Number : 12

---

## Variables

The RFHFormatError message contains the following variables:

Table 1. RFHFormatError Message Variables

<b>1. SerialNumber</b>
------------------------

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [WebSphere MQ Operation Notifications](#)

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## ReasonCode

---

The reason code for the MQ exception caught.

Level : *Info*

Log Message : *MQ Exception caught, reason code is {ReasonCode}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13oReasonCodeEv13

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.2

## Variables

---

The ReasonCode message contains the following variables:

Table 1. ReasonCode Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>
Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.
<ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li> </ul>
<b>5. ReasonCode</b>
The reason code for the MQ exception.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MQ-MIB::ciC13oEv13ReasonCode</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.13.1.2.1.13.1</li> </ul>

**Parent topic:** [WebSphere MQ Operation Notifications](#)

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## WebSphere MQ Internal Notifications

---

Provides a comprehensive list of internal notifications sent from the WebSphere MQ Module.

- **InputParamNull**  
The input parameter specified is of zero length.
- **InternalFailure**  
There was an internal error in MQ activity.

**Parent topic:** [WebSphere MQ Module](#)

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## InputParamNull

---

The input parameter specified is of zero length.

Level : *Severe*

Log Message : *The input parameter "{InputParam}" is zero length.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13iInputParamNullEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.13.1.3

SNMP Trap Number : 1

## Variables

---

The InputParamNull message contains the following variables:

Table 1. InputParamNull Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. InputParam

The input parameter that was specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13iEv1InputParam
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.13.1.3.1.1.1

**Parent topic:** [WebSphere MQ Internal Notifications](#)

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## InternalFailure

---

There was an internal error in MQ activity.

Level : Severe

Log Message : *An internal error occurred: {Message}.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-MQ-MIB::ciC13iInternalFailureEv2

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.13.1.3

SNMP Trap Number : 2

## Variables

---

The InternalFailure message contains the following variables:

Table 1. InternalFailure Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [WebSphere MQ Internal Notifications](#)

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## Workday Module

---

The Workday Module provides activities to act as a Workday client. This section contains details for the messages delivered from the Workday Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the Workday Module.

MIB Name : *CASTIRON-COMP-WD-MIB*

MIB OID : .1.3.6.1.4.1.13336.2.2.3.24

The following table provides an alphabetical list of all notifications that can be issued by the Workday Module.

Table 1. Notifications issued by the Workday Module

Notification	Level	System	Description
AlreadyRegistered	Severe	Orchestration	The URI/port is already registered by the Workday activity.
CleanUpMessage	Severe	Orchestration	Unable to process the request. Additional information about the error can be found on the Web Management Console.
ConnectFailed	Severe	Orchestration	The workday operation failed because a connection to the server could not be established.
ConnectRetry	Warning	Orchestration	The workday operation failed while trying to connect to the server. This will cause a retry.
DataMessageAccepted	Info	Orchestration	SOAP message has been accepted by the Integration Appliance.
MissingProtocol	Warning	Orchestration	Please put the protocol used in front of input parameter location.

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
NotRegistered	Severe	Orchestration	The URI/port has not been registered by the Workday activity.
OperationNameNull	Severe	Orchestration	Operation name must not be null or empty.
TaskContextError	Severe	Orchestration	Error occurred while processing Workday activity due to lost task context.
TransportInfo	Info	Orchestration	The provide activity is started on local transport for the URI.
UriDeprecated	Warning	Orchestration	Workday Module has deprecated the input parameter httpheaders/uri. The specified value will be ignored.
WDFaultString	Severe	Orchestration	The fault string returned by the Workday activity.
WorkdayException	Severe	Orchestration	Error occurred while processing Workday activity.

- [Workday Connection Notifications](#)  
Provides a comprehensive list of connection notifications sent from the Workday Module.
- [Workday Operation Notifications](#)  
Provides a comprehensive list of operation notifications sent from the Workday Module.
- [Workday Internal Notifications](#)  
Provides a comprehensive list of internal notifications sent from the Workday Module.

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## Workday Connection Notifications

---

Provides a comprehensive list of connection notifications sent from the Workday Module.

- [ConnectFailed](#)  
The workday operation failed because a connection to the server could not be established.
- [ConnectRetry](#)  
The workday operation failed while trying to connect to the server. This will cause a retry.

**Parent topic:** [Workday Module](#)

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## ConnectFailed

---

The workday operation failed because a connection to the server could not be established.

Level : *Severe*

Log Message : *Error sending SOAP request to location: {LocationName}. Error is: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WD-MIB::ciC24cConnectFailedEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.24.1.1

SNMP Trap Number : 2

## Variables

The ConnectFailed message contains the following variables:

Table 1. ConnectFailed Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. LocationName</b>  The specified location which was not being able to connect. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-WD-MIB::ciC24cEv2LocationName</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.24.1.1.1.2.1</li></ul>
<b>6. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

Parent topic: [Workday Connection Notifications](#)

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## ConnectRetry

---

The workday operation failed while trying to connect to the server. This will cause a retry.

Level : *Warning*

Log Message : *Unable to send the SOAP request to {LocationName}. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will retry again in {IntervalForRetries} second(s).*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WD-MIB::ciC24cConnectRetryEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.24.1.1

SNMP Trap Number : 1

## Variables

---

The ConnectRetry message contains the following variables:

Table 1. ConnectRetry Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. LocationName</b>  The specified location which was not being able to connect.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24cEv1LocationName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.24.1.1.1.1

## 6. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.1.2.2

## 7. RetryAttemptNumber

The current number of retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24cEv1RetryAttemptNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.24.1.1.1.3

## 8. TotalRetryAttempts

The specified number of attempts to connect to the server before stopping.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24cEv1TotalRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.24.1.1.1.4

## 9. IntervalForRetries

The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24cEv1IntervalForRetries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.24.1.1.1.5

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# Workday Operation Notifications

Provides a comprehensive list of operation notifications sent from the Workday Module.

- [AlreadyRegistered](#)  
The URI/port is already registered by the Workday activity.
- [CleanUpMessage](#)  
Unable to process the request. Additional information about the error can be found on the Web Management Console.
- [DataMessageAccepted](#)  
SOAP message has been accepted by the Integration Appliance.
- [MissingProtocol](#)  
Please put the protocol used in front of input parameter location.
- [NotRegistered](#)  
The URI/port has not been registered by the Workday activity.

- [OperationNameNull](#)  
Operation name must not be null or empty.
- [TransportInfo](#)  
The provide activity is started on local transport for the URI.
- [UriDeprecated](#)  
Workday Module has deprecated the input parameter httpheaders/uri. The specified value will be ignored.
- [WDFaultString](#)  
The fault string returned by the Workday activity.
- [WorkdayException](#)  
Error occurred while processing Workday activity.

**Parent topic:** [Workday Module](#)

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## AlreadyRegistered

The URI/port is already registered by the Workday activity.

Level : *Severe*

Log Message : *[URI: {Uri}, Port: {Port}, Operation Name: {OperationName}] Workday has already been registered. Key: {RegistrationKey}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-WD-MIB::ciC24oAlreadyRegisteredEv7*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.24.1.2*

SNMP Trap Number : *7*

## Variables

The AlreadyRegistered message contains the following variables:

Table 1. AlreadyRegistered Message Variables

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>
Severity of the Notification.
<ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>
The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Uri

The URI which is already registered.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24oEv7Uri
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.24.1.2.1.7.1

#### 6. Port

The port which is already registered.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24oEv7Port
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.24.1.2.1.7.2

#### 7. OperationName

The operation name which was specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24oEv7OperationName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.24.1.2.1.7.3

#### 8. RegistrationKey

Key used to identify this URI/Port/Operation

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24oEv7RegistrationKey
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.24.1.2.1.7.4

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## CleanUpMessage

Unable to process the request. Additional information about the error can be found on the Web Management Console.

Level : Severe

Log Message : *Unable to process the request. Additional information about the error can be found on the Web Management Console.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WD-MIB::ciC24oCleanUpMessageEv9

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.24.1.2

SNMP Trap Number : 9

## Variables

---

The CleanUpMessage message contains the following variables:

Table 1. CleanUpMessage Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## DataMessageAccepted

---

SOAP message has been accepted by the Integration Appliance.

Level : *Info*

Log Message : *SOAP message has been accepted by the Integration Appliance.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WD-MIB::ciC24oDataMessageAcceptedEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.24.1.2

SNMP Trap Number : 1

## Variables

---

The DataMessageAccepted message contains the following variables:

Table 1. DataMessageAccepted Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>

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## MissingProtocol

---

Please put the protocol used in front of input parameter location.

Level : *Warning*

Log Message : *Please put the protocol used (e.g. {Protocol}) in front of the input parameter location: {LocationName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WD-MIB::ciC24oMissingProtocolEv5

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.24.1.2

SNMP Trap Number : 5

## Variables

---

The MissingProtocol message contains the following variables:

Table 1. MissingProtocol Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Protocol</b>  The protocol value that can be specified.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-WD-MIB::ciC24oEv5Protocol</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.24.1.2.1.5.1</li></ul>
<b>6. LocationName</b>  The location name parameter before which protocol has to be specified.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-WD-MIB::ciC24oEv5LocationName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.24.1.2.1.5.2</li></ul>

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## NotRegistered

---

The URI/port has not been registered by the Workday activity.

Level : *Severe*

Log Message : *[URI: {Uri}, Port: {Port}, Operation Name: {OperationName}] has not been registered. Key: {KeyName}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WD-MIB::ciC24oNotRegisteredEv8

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.24.1.2

SNMP Trap Number : 8

## Variables

---

The NotRegistered message contains the following variables:

Table 1. NotRegistered Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Uri</b>  The URI which is not registered.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24oEv8Uri
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.24.1.2.1.8.1

## 6. Port

The port which is not registered.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24oEv8Port
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.24.1.2.1.8.2

## 7. OperationName

The operation name which was specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24oEv8OperationName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.24.1.2.1.8.3

## 8. KeyName

The key name which was specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24oEv8KeyName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.24.1.2.1.8.4

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## OperationNameNull

Operation name must not be null or empty.

Level : *Severe*

Log Message : *Operation name must not be null or empty!*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WD-MIB::ciC24oOperationNameNullEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.24.1.2

SNMP Trap Number : 2

## Variables

The OperationNameNull message contains the following variables:

Table 1. OperationNameNull Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

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## TransportInfo

The provide activity is started on local transport for the URI.

Level : *Info*

Log Message : *The provide activity is started on local transport for the URI: {URI}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WD-MIB::ciC24oTransportInfoEv10

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.24.1.2

SNMP Trap Number : 10

## Variables

The TransportInfo message contains the following variables:

Table 1. TransportInfo Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. URI

URI at which provie activity was started.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24oEv10URI
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.24.1.2.1.10.1

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## UriDeprecated

Workday Module has deprecated the input parameter httpheaders/uri. The specified value will be ignored.

Level : *Warning*

Log Message : *Workday Module has deprecated the input parameter "httpheaders/uri". The value: {Value} will be ignored. Please set the URL (e.g. <http://www.castiron.com/Workday>) at the location in the endpoint panel or at the input parameter "location".*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WD-MIB::ciC24oUriDeprecatedEv6

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.3.24.1.2

SNMP Trap Number : 6

## Variables

---

The UriDeprecated message contains the following variables:

Table 1. UriDeprecated Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Value</b>  The value which will be ignored due to deprecated input parameter.  <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-WD-MIB::ciC24oEv6Value</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.24.1.2.1.6.1</li></ul>

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## WDFaultString

---

The fault string returned by the Workday activity.

Level : Severe

Log Message : {Message}

System : Orchestration

SNMP Name : CASTIRON-COMP-WD-MIB::ciC24oWDFaultStringEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.24.1.2

SNMP Trap Number : 3

## Variables

---

The WDFaultString message contains the following variables:

Table 1. WDFaultString Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

**Parent topic:** [Workday Operation Notifications](#)

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## WorkdayException

Error occurred while processing Workday activity.

Level : Severe

Log Message : *Exception while processing Workday activity. Error message: {Message}. Caused by: {Cause}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WD-MIB::ciC24oWorkdayExceptionEv4

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.24.1.2

SNMP Trap Number : 4

## Variables

The WorkdayException message contains the following variables:

Table 1. WorkdayException Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>
<b>6. Cause</b>

The cause of the error message.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24oEv4Cause
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.24.1.2.1.4.2

**Parent topic:** [Workday Operation Notifications](#)

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## Workday Internal Notifications

---

Provides a comprehensive list of internal notifications sent from the Workday Module.

- **TaskContextError**  
Error occurred while processing Workday activity due to lost task context.

**Parent topic:** [Workday Module](#)

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## TaskContextError

---

Error occurred while processing Workday activity due to lost task context.

Level : *Severe*

Log Message : *Exception while processing Workday activity. Error message: {Message}. The task context is lost. The appliance may have been restarted, losing the task context that cannot be saved on the disk.*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-WD-MIB::ciC24iTaskContextErrorEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.24.1.3

SNMP Trap Number : 1

## Variables

---

The TaskContextError message contains the following variables:

Table 1. TaskContextError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

## 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

## 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

## 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [Workday Internal Notifications](#)

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## XML Module

The XML Module provides activities for generating and parsing XML content. This section contains details for the messages delivered from the XML Module.

This topic provides the MIB Name and MIB OID information, in addition to high-level details about each notification in the XML Module.

MIB Name : *CASTIRON-COMP-XML-MIB*

MIB OID : 1.3.6.1.4.1.13336.2.2.3.12

The following table provides an alphabetical list of all notifications that can be issued by the XML Module.

Table 1. Notifications issued by the XML Module

<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
TransformError	Severe	Orchestration	There was an error while transforming the XML.
ValidateInitialize	Severe	Orchestration	There was an error while initializing the validate activity.
XMLParseError	Severe	Orchestration	There was an error while parsing the XML.
XMLQueryError	Severe	Orchestration	There was an error while querying the XML.
XMLSerializeError	Severe	Orchestration	There was an error while serializing the XML.

- [XML Operation Notifications](#)

Provides a comprehensive list of operation notifications sent from the XML Module.

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## XML Operation Notifications

Provides a comprehensive list of operation notifications sent from the XML Module.

- [TransformError](#)  
There was an error while transforming the XML.
- [ValidateInitialize](#)  
There was an error while initializing the validate activity.
- [XMLParseError](#)  
There was an error while parsing the XML.
- [XMLQueryError](#)  
There was an error while querying the XML.
- [XMLSerializeError](#)  
There was an error while serializing the XML.

**Parent topic:** [XML Module](#)

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## TransformError

There was an error while transforming the XML.

Level : *Severe*

Log Message : *Failed to transform XML, error was: {Message}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-XML-MIB::ciC12oTransformErrorEv4*

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.12.1.2

SNMP Trap Number : 4

## Variables

---

The TransformError message contains the following variables:

Table 1. TransformError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

**Parent topic:** [XML Operation Notifications](#)

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## ValidateInitialize

---

There was an error while initializing the validate activity.

Level : *Severe*

Log Message : *Failed to initialize the Xml Validate Activity: {Message}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-XML-MIB::ciC12oValidateInitializeEv5*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.12.1.2*

SNMP Trap Number : *5*

## Variables

The ValidateInitialize message contains the following variables:

Table 1. ValidateInitialize Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. Message</b>  Textual description of the error. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvMessage</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.2</li></ul>

Parent topic: [XML Operation Notifications](#)

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## XMLParseError

---

There was an error while parsing the XML.

Level : *Severe*

Log Message : *Failed to parse XML, error was: {ErrorMessage}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-XML-MIB::ciC12oXMLParseErrorEv1

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.12.1.2

SNMP Trap Number : 1

## Variables

---

The XMLParseError message contains the following variables:

Table 1. XMLParseError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.1.3.3</li></ul>
<b>2. Severity</b>  Severity of the Notification. <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li></ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li></ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event. <ul style="list-style-type: none"><li>• <b>Type</b> : OID</li><li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</li><li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.3</li></ul>
<b>5. ErrorMessage</b>  The error message returned while parsing the XML. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-XML-MIB::ciC12oEv1ErrorMessage</li></ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.12.1.2.1.1.1

**Parent topic:** [XML Operation Notifications](#)

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## XMLQueryError

---

There was an error while querying the XML.

Level : *Severe*

Log Message : *Failed to query XML, error was: {Message}*

System : *Orchestration*

SNMP Name : CASTIRON-COMP-XML-MIB::ciC12oXMLQueryErrorEv2

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.12.1.2

SNMP Trap Number : 2

## Variables

---

The XMLQueryError message contains the following variables:

Table 1. XMLQueryError Message Variables

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap.  <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<b>2. Severity</b>  Severity of the Notification.  <ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.1</li> </ul>
<b>3. JobID</b>  The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.  <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-REGISTRATIONS-MIB::ciEvJobID</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.1.2.4</li> </ul>
<b>4. Orchestration</b>  Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.  <ul style="list-style-type: none"> <li>• <b>Type</b> : OID</li> </ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

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## XMLSerializeError

There was an error while serializing the XML.

Level : Severe

Log Message : Failed to serialize XML, error was: {Message}

System : Orchestration

SNMP Name : CASTIRON-COMP-XML-MIB::ciC12oXMLSerializeErrorEv3

SNMP Enterprise : .1.3.6.1.4.1.13336.2.2.3.12.1.2

SNMP Trap Number : 3

## Variables

The XMLSerializeError message contains the following variables:

Table 1. XMLSerializeError Message Variables

### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

#### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. Message

Textual description of the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

**Parent topic:** [XML Operation Notifications](#)

[Feedback | Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/xml/xml\\_operation\\_xmlserializeerror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/xml/xml_operation_xmlserializeerror_message.html)

## Uncategorized Notifications

This topic provides details about messages that have not formally been categorized in an existing module.

These notifications are used for events which have not yet been assigned their own OID. Use the information specified in the Message variable to identify individual notifications.

SNMP Name : CASTIRON-IA-MIB::ciIaUncategorizedEv

SNMP Enterprise : 1.3.6.1.4.1.13336.2.2.1.1.10

SNMP Trap Number : 1

## Variables

The uncategorized message contains the following variables:

Table 1. Uncategorized Message Variables

#### 1. SerialNumber

The serial number of the appliance sending the trap.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.1.3.3

#### 2. Severity

Severity of the Notification.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvSeverity

- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.1

### 3. JobID

The ID of the job being run when an error occurred. If the error is unrelated to a specific job, this field is blank.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvJobID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.4

### 4. Orchestration

Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.

- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. Message

Textual description of the error. See the table below for a list of descriptions.

- **Type** : String
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvMessage
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.2

### 6. LoggerName

Name of the logger used to send the notification. See table below.

- **Type** : String
- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaEvLoggerName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.10.1.1

## Uncategorized Messages

This table lists the most commonly encountered uncategorized notifications. When one of these notifications is categorized, a replacement value is provided and the message remains in the uncategorized messages list for reference purposes.

Table 2. Uncategorized Messages

Severity	System	LoggerName	Message	Replacement
Severe	Orchestration	com.approuter.module.platform	Fan is not functional. Fan: {0} Current Speed: {1} rpm Min Required Speed: {2} rpm Max Allowed Speed: {3} rpm Machine ID: {4}	<a href="#">FanFailed</a>
Info	Orchestration	com.approuter.module.platform	Fan is functional. Fan: {0} Current Speed: {1} rpm Min Required Speed: {2} rpm Max Allowed Speed: {3} rpm Machine ID: {4}	<a href="#">FanRestored</a>
Severe	Orchestration	com.approuter.module.platform	Temperature is out of range. Temperature sensor: {0} Current temperature: {1} degrees C Minimum: {2} degrees C Maximum: {3} degrees C Machine ID: {4}	<a href="#">TemperatureOutOfRange</a>
Info	Orchestration	com.approuter.module.platform	Temperature is restored. Temperature sensor: {0} Current temperature: {1} degrees C Minimum: {2} degrees C Maximum: {3} degrees C Machine ID: {4}	<a href="#">TemperatureRestored</a>
Warning	Orchestration	com.approuter.module.platform	Power has been interrupted. Machine ID: {1}	<a href="#">PowerInterrupted</a>
Info	Orchestration	com.approuter.module.platform	Power has been restored. Machine ID: {1}	<a href="#">PowerRestored</a>
Warning	Orchestration	com.approuter.module.platform	The Integration Appliance {0} has been opened. Machine ID: {1}	<a href="#">IntrusionInform</a>

<b>Severity</b>	<b>System</b>	<b>LoggerName</b>	<b>Message</b>	<b>Replacement</b>
Severe	Orchestrati on	com.approuter.m odule.platform	RAID Array {0} is offline. Machine ID: {1}	RaidArrayOffline
Severe	Orchestrati on	com.approuter.m odule.platform	RAID Array {0} is degraded, probably because of a disk failure. Machine ID: {1}	RaidArrayDegrade d
Info	Orchestrati on	com.approuter.m odule.platform	RAID Array {0} is optimal. Machine ID: {1}	RaidArrayOptimal
Severe	Orchestrati on	com.approuter.m odule.platform	RAID Disk {0} on array {1} has failed. Machine ID: {2}	RaidDiskFailed
Info	Orchestrati on	com.approuter.m odule.platform	RAID disk {0} on array {1} is rebuilding. Do not remove the disk until the rebuild is completed. Machine ID: {2}	RaidDiskRebuildin g
Info	Orchestrati on	com.approuter.m odule.platform	RAID disk {0} on array {1} is online. Machine ID: {2}	RaidDiskOnline
Info	Orchestrati on	com.approuter.m odule.platform	High Availability System Failover successful.	HighAvailFailover
Info	Orchestrati on	com.approuter.m odule.platform	Network Interface Link Up. Network Interface {0} is now up Machine ID: {1}	NetworkLinkUp
Warning	Orchestrati on	com.approuter.m odule.platform	Network Interface Link Down. Network Interface {0} is now down Machine ID: {1}	NetworkLinkDown
Warning	Orchestrati on	com.approuter.m odule.platform	Automatically added hostname to /etc/hosts, see "net show etghost".	NetworkAutohost
Warning	Orchestrati on	com.approuter.m odule.platform	Could not add route to {0} on {1}	NetworkInvalidRo ute
Info	Orchestrati on	com.approuter.m odule.platform	Swap space usage is now below the {0}% warning threshold - current usage is {1}.{2}%	SwapUsageWarn Ok
Info	Orchestrati on	com.approuter.m odule.platform	Swap space usage is now below the {0}% critical threshold - current usage is {1}.{2}%	SwapUsageCritOk
Warning	Orchestrati on	com.approuter.m odule.platform	Swap space usage has exceeded the {0}% warning threshold - current usage is {1}.{2}%	SwapUsageWarni ng
Severe	Orchestrati on	com.approuter.m odule.platform	Swap space usage has exceeded the {0}% critical threshold - current usage is {1}.{2}%	SwapUsageCritica l
Info	Orchestrati on	com.approuter.m odule.platform	{0} disk space usage is now below the {1}% warning threshold - current usage is {2}.{3}%	DiskUsageWarnO k
Info	Orchestrati on	com.approuter.m odule.platform	{0} disk space usage is now below the {1}% critical threshold - current usage is {2}.{3}%	DiskUsageCritOk
Warning	Orchestrati on	com.approuter.m odule.platform	{0} disk space usage has exceeded the {1}% warning threshold - current usage is {2}.{3}%	DiskUsageWarnin g
Severe	Orchestrati on	com.approuter.m odule.platform	{0} disk space usage has exceeded the {1}% critical threshold - current usage is {2}.{3}%	DiskUsageCritical
Info	Orchestrati on	com.approuter.m odule.platform	Job log purge triggered. Available disk space is {0}%. Specified trigger is {1}%.  OrcmonDiskTrigge r	OrcmonDiskTrigge r
Info	Orchestrati on	com.approuter.m odule.platform	Job log purge triggered. Exceeded maximum duration since last purge.	OrcmonPurgeByTi meNP
Info	Orchestrati on	com.approuter.m odule.platform	Job log purge triggered. Time since last purge exceeded {0}.	OrcmonPurgeByTi me
Info	Orchestrati on	com.approuter.m odule.platform	Job log purge triggered. There are {0} completed jobs. Completed jobs threshold is {1}.	OrcmonPurgeByC ompl
Info	Orchestrati on	com.approuter.m odule.platform	Job log purge triggered. There are {0} errored jobs. Errored jobs threshold is {1}.	OrcmonPurgeByE rrored

<b>Severity</b>	<b>System</b>	<b>LoggerName</b>	<b>Message</b>	<b>Replacement</b>
Info	Orchestration	com.approuter.module.platform	Job log purged {0} jobs.	OrcmonExportedJobs
Info	Orchestration	com.approuter.module.platform	Exporting job log data to local archive file "{0}".	OrcmonExportLocal
Info	Orchestration	com.approuter.module.platform	Exporting archive file to FTP server {0}:{1}. Placing file "{2}" in directory "{3}".	OrcmonExportFTP
Severe	Orchestration	com.approuter.module.platform	Failure uploading archive file to FTP server: Could not cd to directory "{0}".	OrcmonExportCdError
Severe	Orchestration	com.approuter.module.platform	Failure uploading archive file to FTP server: Could not store file.	OrcmonExportStoreErr
Severe	Orchestration	com.approuter.module.platform	Failure uploading archive file to FTP server: {0}	OrcmonExportError
Warning	Orchestration	com.approuter.module.platform	Job log purge triggered. Available disk space is {0}%. Specified trigger is {1}%. Purging using properties failed to clear enough disk space. Purging half of all job logs in attempt to recover disk space.	OrcmonDiskFull
Severe	Orchestration	com.approuter.module.platform	Failed to purge any job logs to recover disk space. Available disk space is {0} %.	OrcmonDiskFullNoPurge
Severe	Orchestration	com.approuter.module.platform	Job log purge/archive failed: {0}.	OrcmonPurgeFailed
Severe	Orchestration	com.approuter.module.platform	An error occurred while archiving job logs. The error message is: {0}	OrcmonArchiveError
Severe	Orchestration	com.approuter.module.platform	An error occurred while executing a query on the job log database. The error message is: {0}	OrcmonDatabaseError
Severe	Orchestration	com.approuter.module.platform	Authentication failure for user {0}, from host {1}.	AuthFailure
Info	Orchestration	com.approuter.module.platform	Access Violation by user: {0}. Target: {1}. Action Performed: {2}.	AccessViolation
Info	Orchestration	com.approuter.module.platform	Authentication success for user {0}, from host {1} with session id {2}.	AuthSuccess
Info	Orchestration	com.approuter.module.platform	New User {0} has been created with id {1}.	UserCreated
Info	Orchestration	com.approuter.module.platform	User {0} has been deleted.	UserDeleted
Info	Orchestration	com.approuter.module.platform	New Group {0} has been created with id {1}.	GroupCreated
Info	Orchestration	com.approuter.module.platform	Group {0} has been deleted.	GroupDeleted
Info	Orchestration	com.approuter.module.platform	User {0} has been revoked of the role {1}.	RevokeRole
Info	Orchestration	com.approuter.module.platform	User {0} has been granted role of {1}.	GrantRole
Info	Orchestration	com.approuter.module.platform	User {0} displayName has been changed from {1} to {2}.	UpdateUser
Info	Orchestration	com.approuter.module.platform	User {0} status has been changed from {1} to {2}.	UpdateStatus
Info	Orchestration	com.approuter.module.platform	User {0} with session id {1} logged out successfully.	AuthLogOut

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/uncategorized\\_messages.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/uncategorized_messages.html)

## Log Message Reference

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Alphabetized list of all log messages, with links to the details.

Message	Module	Level	Notification
A connection error occurred while sending the receive activity response. Exception: {Message}	HTTP	Server	<a href="#">ReceiveSendReplyError</a>
A connection error occurred while sending the response. Error is {Message}	HTTP	Server	<a href="#">ReplyConnectionError</a>
A general error occurred while sending the response. Exception: {Message}	HTTP	Server	<a href="#">ReplyGeneralError</a>
A select statement was issued to control table {TableName} to check for duplicate rows.	Database	Info	<a href="#">SelectStatement</a>
About to execute function {FunctionName}	SAP	Info	<a href="#">StartFunctionExec</a>
Access Violation by user: {Username}. Target: {Target}. Action Performed: {Action}.	Platform	Info	<a href="#">AccessViolation</a>
Activation of Get SAML 2.0 token failed	STS	Server	<a href="#">ActivationFailed</a>
Activity could not be converted into TwoPhase activity	Maestro	Server	<a href="#">ErrorTwoPhase</a>
Activity could not get activated. Error is: {Message}	Salesforce.com	Server	<a href="#">ActivateError</a>

Message	Module	Level	Notification
Activity expected string data (MQFMT_STRING), but the message is of format "{Format}".	WebSphere MQ	Warning	Format Warning
Activity failed as data to get is larger than activity can handle. Error is: {Message}	Salesforce.com	Severe	LargeDataError
Activity {ActivityName} activated successfully	JD Edwards	Info	Activate Successful
Activity {ActivityName} activated successfully	PeopleSoft	Info	Activate Success
Activity {ActivityName} activated successfully.	Domino	Info	Activate Success
Activity {ActivityName} could not find any record	PeopleSoft	Info	GetNoReturn
Activity {ActivityName} is stopped successfully.	Domino	Info	StopSuccess
Activity {ActivityName} not started as {Name} is blank	PeopleSoft	Severe	Activate FailureBlank
ActivityFactory (name - {ActivityName}, version - {ActivityVersion}) not registered	Mae stro	Severe	NoActivityFactory
ActivityFactory (name - {ActivityName},version - {ActivityVersion}) has multiple registrations, not loading	Mae stro	Severe	Multiple ActFactory
ActivityFactory (name - {ActivityName},version - {ActivityVersion}) returned wrong class {ActivityClass}	Mae stro	Severe	WrongActFactor y
Adding Connection Pool with name {PoolName}	SAP	Info	PoolAdd Info
Adding Server Gateway {GatewayName}.	SAP	Info	AddingServerInfo
Additional property {PropertyName} set to {PropertyValue} so setup connection pool.	Email	Info	NewConnectEverytime

Message	Module	Level	Notification
An I/O error occurred while processing the request. Exception: {Message}	HTTP	Server	ReceiveIOError
An error occurred handling a receive request. Exception: {Message}	HTTP	Server	CommonHandlerError
An error occurred while archiving job logs. The error message is: {Message}	Platform	Server	Orcmon ArchiveError
An error occurred while closing the connection in the exception path. The exception is {Message}	Database	Warning	JDBCCo nnection Close
An error occurred while connecting to the database. The exception is {Message}	Database	Warning	Connecti onError
An error occurred while connecting to the database. The exception is {Message} The job is retrying: {RetryAttemptNumber} out of {TotalRetryAttempts} attempts to connect to the database . Another attempt will be made after {IntervalForRetries} secs.	Database	Warning	Connecti onRetry
An error occurred while executing a query on the job log database. The error message is: {Message}	Platform	Server	Orcmon DatabaseError
An error occurred while processing the message for the parameterized query activity at row number {RowNumber}. The error is: {Message}	Database	Server	ParamQ ueryErro r
An error occurred while processing the request. Exception: {Message}	HTTP	Server	ReceiveInternalE rror
An error occurred while reading headers. Exception: {Message}	HTTP	Server	ReplyUn Marshal Header

Message	Module	Level	Notification
An error occurred while setting the key store. Exception: {Message}	HTTP	Severe	RegisterKeyStore
An error occurred while trying to execute activity {ActivityName}. Error is: {Message}	Domino	Severe	ActivityFailure
An error occurred while trying to process an unsupported Accept-Charset encoding. Exception: {Message}	HTTP	Severe	ReceiveOperationError
An exception occurred while activating the activity. The exception is :{Message}	HTTP	Severe	RequestActivate
An exception occurred while activating the parameterized query activity. The exception is: {Message}	Database	Severe	ParamQueryActivate
An exception occurred while activating the stored procedure activity. The exception is: {Message}	Database	Severe	StoredProcActivate
An exception occurred while deleting the row from the control table. The exception is {Message}	Database	Severe	ErrorDeletePost
An exception occurred while deleting the row from the control table. The exception is: {Message}	Database	Severe	DeleteRowsError
An exception occurred while processing a SingleTableNotification job. Data error at row number {RowNumber} of table {TableName}. The Error is {Message}	Database	Severe	ErrorSingleTableJob
An exception occurred while processing an outbound job in the stored procedure activity. Data error at row number: {RowNumber}. The error is {Message}	Database	Severe	StoredProcException

Message	Module	Level	Notification
An exception occurred while processing the inbound job: {Message}	Database	Severe	InboundOperationError
An insert statement was issued to the control table. {TableName}	Database	Info	InsertTableStatement
An internal error occurred: {Message}.	WebSphere MQ	Severe	InternalFailure
An unexpected result returned from the buffer table. Expecting rows to be present in the result, instead the result is empty.	Database	Warning	UnexpectedEmptyRows
An unknown exception occurred while sending the response to the client. Exception: {Message}	HTTP	Severe	ReplyUnknownError
Append data to file "{FileName}" completed with return code {ResponseCode}.	FTP	Info	AppendAfter
Appending data to file "{FileName}".	FTP	Info	AppendBefore
Archiver created successfully, now performing archiving.	Archive	Info	ArchiverCreated
Archiving done successfully.	Archive	Info	ArchiveDone
Attempt to upgrade Cast Iron firmware on appliance {AffectedAppliance} from version {OldVersion} to version {NewVersion} failed: {Message}.	Platform	Severe	UpgradeFailed
Authentication failure for user {Username}, from host {Host}.	Platform	Severe	AuthFailure
Authentication success for user {UserName}, from host {Host} with session id {SessionId}.	Platform	Info	AuthSuccess
Automatically added entry to /etc/hosts with hostname {Hostname} and IP address {IPAddress}.	Platform	Warning	NetworkAutohost

Message	Module	Level	Notification
Automatically converting old style FTP filename pattern from "{OldStylePattern}" to "{NewStylePattern}". Please republish project from Studio verison 3.6 or later to eliminate this warning.	FTP	Warning	FtpPatternConversion
Binding parameters supplied are invalid.	Archive	Severe	IncorrectParameters
Boundary attribute not set in input parameter 'mimeheader'. Input body being set as entityBody in first entity of 'parts' output parameter.	MIME	Info	BoundaryAbsent
Boundary delimiters longer than 70 characters. Ignoring the specified boundary value. Using auto-generated boundary.	MIME	Warning	BoundaryMoreThan70
Boundary is: \"{Boundary}\\".	MIME	Info	BoundaryInfo
Boundary specified in header but no boundary found in the body. Returning single body.	MIME	Warning	NoBoundaryFound
Call context created but task never started; destroying task {TaskID}	Mae stro	Info	CallContextDestroy
Call to function {FunctionName} is complete	SAP	Info	CompleteFunctionExec
Cancel of job {JobID} of Orchestration {OrchName} failed: {Message}.	Mae stro	Severe	LoaderCancel
Cannot complete this job due to low memory, please try redeploying this orchestration	Mae stro	Severe	LargeTotalVarSize
Cannot start an orchestration that is in transient state: {State}	Mae stro	Severe	ProgramStart
Caught exception while canceling job: {Message}	Mae stro	Warning	TaskCancelled
Changed directory to "{DirectoryName}" completed with return code {ResponseCode}.	FTP	Info	DirChangeAfter

Message	Module	Level	Notification
Changing to directory "{DirectoryName}".	FTP	Info	DirChangeBefore
Committing TID {TID}.	SAP	Info	TIDCommittingInfo
Completed activity and spewed out sessionInfo and {NameOfOutputParam} output parameter.	Salesforce.com	Info	ActivityOutput
Completed activity and spewed out sessionInfo output parameter and {NumberOfObjects} objects in output parameter {NameOfOutputParam}.	Salesforce.com	Info	ParameterOutput
Completed activity and spewed out sessionInfo output parameter and {NumberOfResults} result objects in output parameter {NameOfOutputParam}.	Salesforce.com	Info	ParameterResults
Composite media type {MediaType} cannot have any other Content-Transfer-Encoding apart from 7bit, 8bit or binary.	MIME	Severe	TransferEncodingError
Config Parameters: From: \"{From}\", To: \"{To}\", CC: \"{CC}\", BCC: \"{BCC}\", Subject: \"{Subject}\".	Email	Info	SmtpConfigParams
Config parameters: From Pattern: \"{FromPattern}\", Subject Pattern: \"{SubjectPattern}\".	Email	Info	Pop3ConfigParams
Connected to the POP3 server.	Email	Info	Pop3Connected
Connected to the SMTP server.	Email	Info	SmtpConnected
Connection Pool {PoolName} already exists, Using existing definition.	SAP	Info	PoolExistInfo
Connection error while executing activity {ActivityName}. The error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s)	JDEdwards	Warning	JDERetryError
Connection error while executing activity {ActivityName}. The error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s)	PeopleSoft	Warning	ConnectionRetry
Connection exception in the subscriber. The exception is {Message}. Going to restart the subscriber after the {IntervalForRestart} secs	JMS	Severe	SubscriberConnect

Message	Module	Level	Notification
Connection exception while getting message from the provider. The error code is {ErrorCode} and message is {ErrorMessage}. The job is retrying {RetryAttemptNumber}, out of {TotalRetryAttempts} attempts to connect to JMS provider. The next attempt will be after {IntervalForRetries} seconds.	JMS	Warning	<a href="#">GetConnectRetry</a>
Connection exception while polling message. The exception is {Message}. The job is retrying {RetryAttemptNumber} out of {TotalRetryAttempts} attempt to connect to JMS provider. The next attempt will be after {IntervalForRetries} secs.	JMS	Warning	<a href="#">PollMessageRetry</a>
Connection exception while sending message. The error code is {ErrorCode} and exception is {ErrorMessage}. The job is retrying {RetryAttemptNumber} out of {TotalRetryAttempts} attempt to connect to JMS provider. The next attempt will be after {IntervalForRetries} secs.	JMS	Warning	<a href="#">SendConnectRetry</a>
Connection handler retrieved from the call context is Null!	HTTP	ServerError	<a href="#">ReplyHandlerNull</a>
Content-Encoding header received: {ContentEncodingHeader}	HTTP	Info	<a href="#">IncomingContentEnc</a>
Content-Transfer-Encoding value for attachment {AttachmentNumber} is {EncodingValue} while the attachment body has lines greater than 998 characters in length. Changing the Content-Transfer-Encoding to binary.	MIME	Warning	<a href="#">TransferEncChanged</a>
Content-Transfer-Encoding value missing for attachment number {AttachmentNumber}. Guessing based on Content-Type and charset values.	MIME	Warning	<a href="#">TransferEncMissing</a>
Content-type not found. Taking default Content-Type as text/plain.	MIME	Info	<a href="#">DefaultContentType</a>
Could not add route to {DestinationIP} on {LinkName}.	Platform	Warning	<a href="#">NetworkInvalidRoute</a>
Could not clean up object with ID {ObjectID}, will try later	Maestro	Warning	<a href="#">DeleteObject</a>
Could not close output stream	Maestro	Warning	<a href="#">CloseOutputStream</a>

Message	Module	Level	Notification
Could not close reader	Mae stro	Warning	<a href="#">CloseInputStream</a>
Could not close reader	Mae stro	Warning	<a href="#">CloseReader</a>
Could not close writer	Mae stro	Warning	<a href="#">CloseWriter</a>
Could not delete file "{FileName}" after processing. Error is {Message}	FTP	Warning	<a href="#">UnableToDelete</a>
Could not execute query to preload lookup cache	Data Quality	Warning	<a href="#">BadPeloadQuery</a>
Could not find an Archiver for supplied archive type: {FormatName}	Archive	Server	<a href="#">InvalidArchiveFormat</a>
Could not find an entry point for the activity: [{ActivityName}] in the compiled orchestration	Mae stro	Server	<a href="#">EntryPath</a>
Could not get data for date range, because id limit exceeded	Salesforce.com	Server	<a href="#">LargeData</a>
Could not initialize FaultInfo	Mae stro	Server	<a href="#">FaultInfo</a>
Could not initialize JobInfo	Mae stro	Server	<a href="#">InitializeJobInfo</a>

<b>Message</b>	<b>Module</b>	<b>Level</b>	<b>Notification</b>
Could not log monitor events	Mae stro	Severe	<a href="#">Monitor Events</a>
Could not log monitor variable "{VariableName}"	Mae stro	Warning	<a href="#">Monitor Variable</a>
Could not log monitor variables	Mae stro	Warning	<a href="#">Monitor Variables</a>
Could not move file "{FileName}" after processing. Error is {Message}	FTP	Warning	<a href="#">UnableToMove</a>
Could not perform input map expression: {ExpressionName}	Mae stro	Severe	<a href="#">InputMapXPath</a>
Could not perform input map transform: {Message}	Mae stro	Severe	<a href="#">InputMapXSLT</a>
Could not perform output map expression: {Message}	Mae stro	Severe	<a href="#">OutputMapXPath</a>
Could not perform output map transform: {Message}	Mae stro	Severe	<a href="#">OutputMapXSLT</a>
Could not perform output map: {Message}	Mae stro	Severe	<a href="#">OutputMap</a>
Could not query for monitor data	Mae stro	Severe	<a href="#">Monitor Query</a>

<b>Message</b>	<b>Mod ule</b>	<b>L e v el</b>	<b>Notifica tion</b>
Could not read the module configuration: {Message}	Mae stro	Se ver e	ModuleC onfig
Could not receive socket reply	Mae stro	War ni ng	SocketN oReply
Could not register {ObjectName} with mbean server	Mae stro	Se ver e	MBeanR egister
Could not suspend, orchestration not running: {OrchName}	Mae stro	Se ver e	NotSusp end
Could not undeploy, orchestration not stopped, state is {State}: {OrchName}	Mae stro	Se ver e	NotStop ped
Could not unregister {ObjectName} with mbean server	Mae stro	Se ver e	MBeanU nregiste r
Created a new TID {TID} for starting a transaction in send IDOC activity.	SAP	In fo	SendID OCCreat eInfo
Creating a new TID {TID} in the TID Manager.	SAP	In fo	CreateTI D
Current time {CurrentTime} is less than 1 minute past last polling time {LastPollingTime}. Skipping this polling interval.	Sale sforc e.co m	In fo	ShortPol l
Data Error: {Message}.	Emai l	Se ver e	Pop3Dat aError
Data Error: {Message}.	Emai l	Se ver e	SmtpDat aError

Message	Module	Level	Notification
Data Quality Lookup activity with Fuzzy option is not supported in cloud	Data Quality	Severe	DQLookupFuzzyOnCloud
Data being set for field named {FieldName} has length {DataLength}, where as field has length {FieldLength}. There may be loss of data.	Peoplesoft	Warning	DataLengthMore
Data error while executing the activity. The error is: {Message}	Siebel	Severe	DataException
Debugger operation {Value} failed	Maestro	Severe	DebugFailed
Decryption Done.	Crypto Service	Info	DecryptDone
Decryption Started.	Crypto Service	Info	DecryptStarted
Delete failed for item {ItemNumber}. Returning false	Peoplesoft	Warning	DeleteFail
Delete file summary - Directory: {DirName}, Filename: {FileName}	FTP	Info	DeleteInfoSummary
Delete of Orchestration {OrchName} failed: {Message}.	Maestro	Severe	LoaderDelete
Deleted file "{FileName}" on server with return code {ResponseCode}.	FTP	Info	DeleteAfter
Deleting file "{FileName}" on server.	FTP	Info	DeleteBefore
Deploy of Orchestration {OrchName} failed: {Message}.	Maestro	Severe	LoaderDeploy

Message	Module	Level	Notification
Disk space usage on {Disk} has exceeded the {Threshold}% critical threshold - current usage is {Usage}%	Platform	Severe	<a href="#">DiskUsageCritical</a>
Disk space usage on {Disk} has exceeded the {Threshold}% warning threshold - current usage is {Usage}%	Platform	Warning	<a href="#">DiskUsageWarning</a>
Disk space usage on {Disk} is now below the {Threshold}% critical threshold - current usage is {Usage}%	Platform	Info	<a href="#">DiskUsageCritOk</a>
Disk space usage on {Disk} is now below the {Threshold}% warning threshold - current usage is {Usage}%	Platform	Info	<a href="#">DiskUsageWarnOk</a>
Downloaded file "{FileName}" from server with return code {ResponseCode}.	FTP	Info	<a href="#">GetAfter</a>
Downloading file "{FileName}" from server.	FTP	Info	<a href="#">GetBefore</a>
Duplicate list is at capacity, removing file "{FileName}" from duplicate list.	FTP	Info	<a href="#">DeleteDupListEntry</a>
Duplicate message found, discarding.	WebSphere MQ	Info	<a href="#">DuplicateFound</a>
Email id is invalid: {EmailID}.	Email	Warning	<a href="#">InvalidEmailID</a>
Email sent to server.	Email	Info	<a href="#">EmailSent</a>
Emitted {NumberOfEntries} entries to "{Target}"	Data Quality	Info	<a href="#">OutputEntryCount</a>
Empty input parameter 'mimeheader'. Cannot parse data.	MIME	Severe	<a href="#">HeaderAbsent</a>
Empty input parameter 'parts'. No data to serialize.	MIME	Severe	<a href="#">EmptyParts</a>
Encoding parameter not set and no value specified in configuration	Data	Severe	<a href="#">MissingEncParse</a>

Message	Module	Level	Notification
Encoding parameter not set and no value specified in configuration	Data	Server	MissingEncoderSerialize
Encoding parameter not supported: {Encoding}	Data	Server	BadEncoding
Encountered fault of type {FaultType}, please see rest of the log for more information	Mae stro	Server	ActivityFailedError
Encryption Done	Crypto Service	Info	Encrypt Done
Encryption Started.	Crypto Service	Info	Encrypt Started
End time {StartTime} is less than 1 minute past start time {EndTime}. Setting interval to 1 minute and getting data.	Salesforce.com	Info	TimeTooClose
Ended job for orchestration "{OrchName}"	Mae stro	Info	TaskEnd
Endpoint Parameters: Host: \"{HostName}\", Port: {Port}, User: \"{Username}\".	Email	Info	EndpointData
Endpoint Parameters: Host: \"{HostName}\", Port: {Port}, User: \"{Username}\".	Email	Info	SmtpEndpointData
Endpoint object is null.	Salesforce.com	Server	EndpointNull
Entities of type {MainType}/{SubType} cannot have any other Content-Transfer-Encoding apart from 7bit.	MIME	Server	TransferEnclimit
Error connecting to JDE system while activating activity {ActivityName}, error is: {Message}. Activity activated, will try to establish connectivity at activity execute time	JDEwards	Info	ActivateUnSuccessful
Error connecting to PeopleSoft system while activating activity {ActivityName}, error is: {Message}. Activity activated, will try to establish connectivity at activity execute time	PeopleSoft	Info	ActivateUnSuccessful

Message	Module	Level	Notification
Error encountered unmarshaling the MQRFH2 header: {Message}.	WebSphere MQ	Severe	<a href="#">RFHFormatError</a>
Error from Salesforce.com while initializing activity. Trying to ignore error and proceed. Error is: {Message}.	Salesforce.com	Warning	<a href="#">Initialize Problem</a>
Error identifying archive. Message is: {Message}	Archive	Severe	<a href="#">ErrorIdentifyArchive</a>
Error in setup of repository/connection-pool in activate of {ActivityName}. Setup to be done at activity execution time. The error is: {Message}	Siebel	Warning	<a href="#">InvokeActivate</a>
Error occurred while unzip operation. Message is: {Message}	Archive	Severe	<a href="#">ErrorUnZipOperation</a>
Error occurred while zip operation. Message is: {Message}	Archive	Severe	<a href="#">ErrorZipOperation</a>
Error occurred, while communicating to SAP Gateway (host {HostName}, ProgramId {ProgramID}, Service {Service}), trying again in {IntervalForRetries} seconds.\nOriginal SAP error was \n {Message} \nIf the SAP message indicates a retry interval it may not be correct.	SAP	Warning	<a href="#">GatewayCommWarning</a>
Error processing file "{FileName}". Error is {Message}	FTP	Warning	<a href="#">FileProcessingError</a>
Error returned by BAPI {BAPIName} in the type field. The values returned are TYPE: {Type} , MESSAGE: {Message}, LOGNO: {LogNumber}, LOGMSGNO {LogMessage}	SAP	Severe	<a href="#">BAPIReturnError</a>
Error sending SOAP request to location: {LocationName}. Error is: {Message}	Workday	Severe	<a href="#">Connect Failed</a>

Message	Module	Level	Notification
Error sending SOAP request to location: {LocationName}. Error is: {Message}	Web Service	Severe	<a href="#">Connect Failed</a>
Error while activating PeopleSoft Receive. The error is: {Message}	PeopleSoft	Severe	<a href="#">Receive Activate</a>
Error while activating the activity. Exception: {Message}	HTTP	Severe	<a href="#">Receive Activate</a>
Error while activating the {ActivityName} activity. The error is: {Message}	Siebel	Severe	<a href="#">Activate Error</a>
Error while closing the connection pool. The error is: {Message}	Email	Warning	<a href="#">ConPool Release Error</a>
Error while closing the connection pool. The error is: {Message}	JD Edwards	Warning	<a href="#">Connect PoolRelease</a>
Error while closing the connection pool. The error is: {Message}	PeopleSoft	Warning	<a href="#">PoolReleaseError</a>
Error while connecting to JDE. The error is : {Message}	JD Edwards	Warning	<a href="#">Connect Exception</a>
Error while creating the connection to destination. The error is: {Message}	Email	Warning	<a href="#">MakeConnectionPoolError</a>
Error while creating the connection to destination. The error is: {Message}	JD Edwards	Warning	<a href="#">MakeConnection Error</a>

Message	Module	Level	Notification
Error while creating the connection to destination. The error is: {Message}	PeopleSoft	Warning	<a href="#">MakeConnectError</a>
Error while deactivating PeopleSoft Receive. Discarding error: {Message}	PeopleSoft	Severe	<a href="#">ReceiveDeActivate</a>
Error while deactivating the {ActivityName} activity. Discarding error: {Message}	Siebel	Warning	<a href="#">InvokeDeactivateError</a>
Error while deactivating the {ActivityName} activity. Discarding error: {Message}	Siebel	Severe	<a href="#">ReceiveDeactivateError</a>
Error while disconnecting from JDE. The error is : {Message}	JD Edwards	Warning	<a href="#">DisconnectException</a>
Error while executing the activity. The error is: {Message}	Siebel	Severe	<a href="#">InvokeException</a>
Error while parsing data. Error is: {Message}.	MIME	Severe	<a href="#">ParseException</a>
Error while parsing datetime from archive entries. Message is: {Message}	Archive	Warning	<a href="#">InvalidDateTime</a>
Error while processing request in PeopleSoft Receive. The error is: {Message}	PeopleSoft	Severe	<a href="#">ReceiveProcess</a>
Error while processing request. Exception : {Message}	JD Edwards	Severe	<a href="#">JDEInternalerror</a>

Message	Module	Level	Notification
Error while processing request. The error is: {Message}	Siebel	Severe	Internal Error
Error while processing the connection parameters sent as part of the request. Error is: {Message}	Domino	Severe	Connect Error
Error while processing unsupported encoding. Exception : {Message}	JD Edwards	Severe	UnSupportedEncoding
Error while processing unsupported encoding. The error is: {Message}	Siebel	Severe	UnSupportedEncoding
Error while reading archive entry. Message is: {Message}	Archive	Severe	InvalidArchiveEntry
Error while reading archive. Message is: {Message}	Archive	Severe	InvalidArchiveInput
Error while receiving in PeopleSoft Receive. The error is: {Message}	PeopleSoft	Severe	Receive Error
Error while receiving in {ActivityName} activity. The error is: {Message}	Siebel	Severe	Receive Error
Error while returning connection to pool. The error is: {Message}	Email	Warning	ConnectionPoolReturn
Error while returning connection to pool. The error is: {Message}	PeopleSoft	Warning	ConnectionPoolError

Message	Module	Level	Notification
Error while sending the response from PeopleSoft Receive. The error is: {Message}	PeopleSoft	Severe	Receive General Error
Error while serializing data. Error is: {Message}.	MIME	Severe	Serialize Exception
Error while setting up connection pool for {ActivityName} activity. The error is: {Message}	Siebel	Warning	ConnectionPoolError
Error while setting up repository for {ActivityName} activity. The error is: {Message}	Siebel	Warning	RepositoryError
Error while stopping the receive activity. Exception: {Message}	HTTP	Severe	Receive DeActivate
Error while trying to activate activity. Error is: {Message}	Salesforce.com	Severe	PollActivateError
Error while trying to disconnect from server. Discarding error: {Message}.	Email	Warning	DisconnectException
Error while trying to disconnect from server. Discarding error: {Message}.	Email	Warning	SmtpDisconnectError
Error while trying to execute activity {ActivityName}. Error is: {Message}	JDEdwards	Severe	ActivityError
Error while trying to execute activity {ActivityName}. Error is: {Message}	PeopleSoft	Severe	ActivityFailure

Message	Module	Level	Notification
Error while trying to execute activity. Error is: {Message}	Salesforce.com	Severe	<a href="#">Execute Error</a>
Error while trying to execute query. Error is: {Message}	Salesforce.com	Severe	<a href="#">Execute Problem</a>
Error while trying to get IP of router. Error is: {Message}. Continuing without getting IP.	Email	Warning	<a href="#">CouldNotGetHostIP</a>
Error while trying to read optional connection input parameter. Error is: {Message}	Domino	Severe	<a href="#">UnmarshalError</a>
Error while trying to read optional connection input parameter. Error is: {Message}	Salesforce.com	Severe	<a href="#">UnmarshalError</a>
Error while trying to save duplist state after disconnect. Will cleanup in next poll.	Email	Warning	<a href="#">SaveStateError</a>
Error while trying to write output parameter sessionInfo. Error is: {Message}	Salesforce.com	Severe	<a href="#">Marshal Error</a>
Error: {Message}.	Email	Severe	<a href="#">Pop3InternalError</a>
Error: {Message}.	Email	Severe	<a href="#">SmtpInternalError</a>
Error: {Message}.	Scheduler	Severe	<a href="#">ActivityException</a>

Message	Module	Level	Notification
Errors/Warning messages while executing activity: {Message}	Domino	Warning	Running Info
Errors/Warning messages while executing activity: {Message}	Peoplesoft	Warning	Running Info
Exceeded maximum number of activity events for a job; logging disabled	Mae stro	Warning	MaxSeq Num
Exception :{Message}	HTTP	ServerError	UnsupportedEncoding
Exception detected in module, throwing exception {Message}	Mae stro	ServerError	InvokeError
Exception in foreach activity: {Message}	Mae stro	ServerError	ForEach
Exception in map activity: {Message}	Mae stro	ServerError	ErrorMap
Exception in split activity: {Message}	Mae stro	ServerError	SplitError
Exception in subscribing the message. The Exception is: {Message} for message id: {MessageID}, This message should be re-delivered manually from the Provider.	JMS	ServerError	SubscriberError
Exception received on JMS connection while it was in the idle connections pool. The error code is: {ErrorCode}, and the exception is: {ErrorMessage}	JMS	Warning	PooledConnException

<b>Message</b>	<b>Module</b>	<b>Level</b>	<b>Notification</b>
Exception while activating the BAPI Activity. The Exception is {Message}	SAP	Severe	<a href="#">BAPIActivationError</a>
Exception while activating the RFC Activity. The Exception is {Message}	SAP	Severe	<a href="#">RFCActivationError</a>
Exception while activating the Send IDOC Activity. The Exception is {Message}	SAP	Severe	<a href="#">SendIDOCActivation</a>
Exception while activating the database inbound activity.Exception is :{Message}	Database	Severe	<a href="#">ActivateError</a>
Exception while activating the database outbound activity.Exception is :{Message}	Database	Severe	<a href="#">OutboundActivateError</a>
Exception while activating the database poll table activity.Exception is :{Message}	Database	Severe	<a href="#">PollTblActivateError</a>
Exception while activating the sap. The exception is because the sap libraries are not installed. Exception is	SAP	Severe	<a href="#">SapLibNotFound</a>
Exception while closing connection to JDE. The Exception is {Message}	JD Edwards	Severe	<a href="#">CloseConnectionError</a>
Exception while closing the connection pool. The Exception is: {Message}	JMS	Severe	<a href="#">PoolReleaseError</a>
Exception while closing the statement or result set. The exception is {Message}	JD Edwards	Severe	<a href="#">ResourceCleanError</a>

Message	Module	Level	Notification
Exception while configuring the subscriber activity. The exception is: {Message}	JMS	Server	SubscriberConfigError
Exception while creating IDOC form input parameter. The Exception is {Message}	SAP	Server	SerializationError
Exception while creating a schema for the business function name {FunctionName}, function code {FunctionCode}, module code {ModuleCode}. The exception is {Message}	JD Edwards	Server	DataStructureError
Exception while creating connection to JDE. The Exception is {Message}	JD Edwards	Server	GetConnectionError
Exception while creating request schema for the business function {FunctionName}, function code {FunctionCode} , module code {ModuleCode}. The exception is {Message}	JD Edwards	Server	CreateSchemaError
Exception while creating request schema for the business function {FunctionName}, function code {FunctionCode} , module code {ModuleCode}. The exception is {Message}	JD Edwards	Server	ResponseSchemaError
Exception while creating soap message. The exception is: {Message}	NetSuite	Server	SoapError
Exception while creating the connection to destination. The Exception is {Message}	JMS	Server	MakeConnectError
Exception while getting custom fields for the recordType. The soap fault code is {SoapFaultCode} and fault message is {SoapFaultMessage}	NetSuite	Server	CustomFieldError
Exception while getting message from the provider. The error code is {ErrorCode} and message is {ErrorMessage}	JMS	Server	JMSError

<b>Message</b>	<b>Module</b>	<b>Level</b>	<b>Notification</b>
Exception while getting the message from the queue. The Exception is: {Message}	JMS	Severe	PollMessageError
Exception while initializing Lotus Domino connector.	Domino	Severe	InitializationError
Exception while initializing the send IDOC activity. The error message is {Message}	SAP	Severe	InitializationError
Exception while looking up the connection factory {FactoryName}. The exception is: {Message}	JMS	Severe	PoolFactoryError
Exception while looking up the connection factory {Message}. The exception is unknown error message from Provider. One of the reason for the error is If the provider is ActiveMQ and the binding file name or path is not correct.	JMS	Severe	FactoryUnknownError
Exception while marshalling the jms message. The exception is: {Message}	JMS	Severe	GetMarshallError
Exception while parsing schema for the BAPI {BAPIName}. The Exception is {Message}	SAP	Severe	BAPIParseError
Exception while parsing schema for the RFC {RFCName}. The Exception is {Message}	SAP	Severe	ParseError
Exception while processing SAP activity. Error Group: {ErrorGroup}, Error Key: {ErrorKey}, Error Message: {Message}.	SAP	Severe	SAPActivityError
Exception while processing Web Service activity. Error message: {Message}. Caused by: {Cause}	WebService	Severe	WebServiceException

Message	Module	Level	Notification
Exception while processing Web Service activity. Error message: {Message}. The task context is lost. The appliance may have been restarted, losing the task context that cannot be saved on the disk.	Web Service	Severe	TaskContextError
Exception while processing Workday activity. Error message: {Message}. Caused by: {Cause}	Workday	Severe	WorkdayException
Exception while processing Workday activity. Error message: {Message}. The task context is lost. The appliance may have been restarted, losing the task context that cannot be saved on the disk.	Workday	Severe	TaskContextError
Exception while processing a message for NetSuite. Exception is {Message}.	NetSuite	Severe	TransformationError
Exception while processing the IDOC. The exception is {Message}	SAP	Severe	ProcessDocError
Exception while returning connection to pool. The Exception is {Message}	JMS	Warning	ConnectionPoolError
Exception while returning connection to pool. Swallowing the exception. The Exception is {Message}	NetSuite	Warning	ConnectionPoolError
Exception while rolling back the transaction.	SAP	Warning	RollbackWarning
Exception while sending message. The error code is {ErrorCode} and message is {ErrorMessage}	JMS	Severe	SendMessageError
Exception while setting the log directory for SAP trace files.	SAP	Warning	CreateTraceDirFailed
Exception while starting the server. Exception is {Message}	SAP	Info	StartWarning

Message	Module	Level	Notification
Exception while stopping the listener for host {HostName}, ProgramId {ProgramID} and Service {Service}.The Exception is {Message}	SAP	Warning	<a href="#">Listener StopWarning</a>
Exception while unmarshalling the jms message. The exception is: {Message}	JMS	Severe	<a href="#">SendMarshallError</a>
Exception while unsubscribing on the topic {Topic}. The error code is {ErrorCode} and message is {Message}	JMS	Warning	<a href="#">UnsubscribeError</a>
Exception while validating the input data. The Exception is {Message}	SAP	Severe	<a href="#">Validation Error</a>
Exporting archive file to FTP server {Host}:{Port}. Placing file "{Filename}" in directory "{Directory}".	Platform	Info	<a href="#">Orclmon ExportFTP</a>
Exporting job log data to local archive file "{Filename}".	Platform	Info	<a href="#">Orclmon ExportLocal</a>
FTP Endpoint Summary - Host: {HostName}, Port: {PortName}, UserName: {UserName}, Protocol: {Protocol}, Timeout: {Timeout}, FTP Mode: {FtpMode}	FTP	Info	<a href="#">EndpointInfoSummary</a>
Failed to cleanup activity {ActivityName}	Maestro	Warning	<a href="#">CleanUp Failed</a>
Failed to deactivate activity {ActivityName}	Maestro	Severe	<a href="#">DeactivateFailed</a>
Failed to destroy activity {ActivityName}	Maestro	Severe	<a href="#">Destroy Failed</a>
Failed to filter data, error was: {Message}	Data Quality	Severe	<a href="#">FilterError</a>

Message	Module	Level	Notification
Failed to initialize the Xml Validate Activity: {Message}	XML	Server	Validate Initialize
Failed to log message, error was {ErrorMsg}.	Log	Server	FailLogMessage
Failed to merge data, error was: {Message}	Data Quality	Server	MergeError
Failed to parse JSON, error was: {ErrorMessage}	JSON	Server	JSONParseError
Failed to parse XML, error was: {ErrorMessage}	XML	Server	XMLParseError
Failed to perform lookup for data, database assets may not have been created	Data Quality	Server	NoAssetsError
Failed to perform lookup for data, error was: {Message}	Data Quality	Server	LookUp Error
Failed to purge any job logs to recover disk space. Available disk space is {DiskAvailPct}%.	Platform	Server	Orcmon DiskFull NoPurge
Failed to query XML, error was: {Message}	XML	Server	XMLQueryError
Failed to serialize JSON, error was: {Message}	JSON	Server	JSONSerializeError

Message	Module	Level	Notification
Failed to serialize XML, error was: {Message}	XML	Severe	<a href="#">XMLSerializeError</a>
Failed to sort data, error was: {Message}	Data Quality	Severe	<a href="#">SortError</a>
Failed to start the subscriber for the topic {TopicName}. Will try to start the subscriber after {IntervalForRestart} seconds	JMS	Severe	<a href="#">RestartError</a>
Failed to transform JSON, error was: {Message}	JSON	Severe	<a href="#">TransformError</a>
Failed to transform XML, error was: {Message}	XML	Severe	<a href="#">TransformError</a>
Failure uploading archive file to FTP server: Could not cd to directory "{Directory}".	Platform	Severe	<a href="#">Orclmon ExportCdError</a>
Failure uploading archive file to FTP server: Could not store file.	Platform	Severe	<a href="#">Orclmon ExportStoreError</a>
Failure uploading archive file to FTP server: {Message}	Platform	Severe	<a href="#">Orclmon ExportError</a>
Fan {FanID} on appliance {AffectedAppliance} is functional. Current={CurrentSpeed} RPM. Minimum={MinimumSpeed} RPM.	Platform	Info	<a href="#">FanRestored</a>
Fan {FanID} on appliance {AffectedAppliance} is not functional. Current={CurrentSpeed} RPM. Minimum={MinimumSpeed} RPM.	Platform	Severe	<a href="#">FanFailed</a>
File "{FileName}" kept in place, will not overwrite.	FTP	Warning	<a href="#">FileNotMoved</a>

Message	Module	Level	Notification
File named "{FileName}" has already been processed previously. The previous timestamp was {Timestamp}.	FTP	Info	DuplicateFile
Filename is empty. Please specify valid filename.	FTP	Server	PutEmptyFileName
Filtered {NumberOfEntries} entries	Crypto Service	Info	InputEntryCount
Filtered {NumberOfEntries} entries	Data Quality	Info	InputEntryCount
Finger print for host: {HostName} is {FingerprintInfo}	FTP	Info	SshFingerPrintInfo
Found boundary parameter: \'{Boundary}\'.	MIME	Info	FoundBoundary
From pattern \'{FromPattern}\' incorrect. Error is: {Message}.	Email	Server	PatternIncorrect
General FTP module exception. Error is: {Message}	FTP	Server	InternalException
General error while sending the response. The error is: {Message}	Siebel	Server	GeneralError
Get file summary - Directory: {DirName}, Filename: {FileName}, IsBinary? {BinaryOption}	FTP	Info	GetInfoSummary
Getting a listing for pattern "{Pattern}" for current directory.	FTP	Info	ListBefore
Getting a name listing for pattern "{Pattern}" for current directory.	FTP	Info	NListBefore
Got Content-Transfer-Encoding: {ContentTransfer}.	MIME	Info	TransferEncodingValue
Got boundary: \'{Boundary}\'.	MIME	Info	BoundarySpecified
Got document from {From} with Message Name: {MessageName}, Message Version: {MessageVersion}, Message Type: {MessageType} and Originating Time Stamp: {TimeStamp}	PeopleSoft	Info	ReceiveInfo

Message	Module	Level	Notification
Got exception in "Schedule Job" activity: {Message}. Continuing to schedule jobs.	Scheduler	Warning	ScheduleWarning
Got main-type: {MainType}.	MIME	Info	MainType
Group {UserName} has been deleted.	Platform	Info	GroupDeleted
HA peers are running different versions of CIOS!	Platform	Severe	HighAvailabilityError
IO Error while processing request in PeopleSoft Receive. The error is: {Message}	PeopleSoft	Severe	ReceiveIOError
IO Error while processing request. The error is: {Message}	Siebel	Severe	IOError
IO Exception.	Crypto Service	Severe	InvalidFormat
ITEM_NO is empty. Returning false	PeopleSoft	Warning	ItemNumberBlank
Idoc contains more than one type of IDOC extension type	SAP	Severe	IDOCExtensionError
Idoc with the TID {TID} is sent successfully to sap.	SAP	Info	IDOCSentInfo
Information about this run of the Socket Janitor.	HTTP	Info	SocketCollectorRunInfo
Initializing the values in the MBean: {LoopBackString}	HTTP	Info	LoopBackInitialization
Input data was not valid for IDOC. The following item(s) were invalid: {InvalidItems}	SAP	Severe	SendIDOCValidation

<b>Message</b>	<b>Module</b>	<b>Level</b>	<b>Notification</b>
Input data was not valid for RFC {RFCName}. The following item(s) were invalid: {InvalidItems}	SAP	Severe	<a href="#">SAPValidationError</a>
Input entries do not conform to the schema. Error Message is: {Message}	Archive	Severe	<a href="#">ValidationError</a>
Input entries successfully validated against schema.	Archive	Info	<a href="#">ValidationFine</a>
Input entry has no content or it's a blank entry.	Archive	Severe	<a href="#">ArchiveEntryBlank</a>
Input parameter "{ParamName}" is over {Length} and is too large to log	Mae stro	Warning	<a href="#">LargeInputParam</a>
Input parameter 'body' from container is NULL.	Email	Severe	<a href="#">BodyNull</a>
Input parameter 'body' from container is NULL.	MIME	Severe	<a href="#">InputBodyNull</a>
InputOutput Exception. {0}	Crypto Service	Severe	<a href="#">IOException</a>
Integrity check failed.	Crypto Service	Info	<a href="#">IntegrityCheckFailed</a>
Integrity check passed.	Crypto Service	Info	<a href="#">IntegrityCheckPassed</a>
Internal error in Salesforce.com connector. Error is: {Message}	Salesforce.com	Severe	<a href="#">SfdcErrorInternal</a>

Message	Module	Level	Notification
Internal error: {Message}	Mae stro	Se vere	UnCaughtError
Internal error: {Message}	Mae stro	Se vere	UnExpectedError
Internal error: {Message}	Mae stro	War ning	IOError
Invalid Content	Cryp to Service	Se vere	InvalidContent
Invalid Date Format	Cryp to Service	Se vere	InvalidDateFormat
Invalid Key Handle or Password . {KeyHandleName}	Cryp to Service	Se vere	InvalidKeyOrPwd
Invalid Key Store.	Cryp to Service	Se vere	InvalidAlgorithm
Invalid Key Store. {KeyHandleName}	Cryp to Service	Se vere	InvalidKeyStore
Invalid Keyhandle. {KeyHandleName}	Cryp to Service	Se vere	InvalidKeyhandle
Invalid OSGI query syntax: {Message}	Mae stro	Se vere	OSGISyntaxError

Message	Module	Level	Notification
Invalid Password.	Crypto Service	Severe	<a href="#">Invalid Password</a>
Invalid Salesforce.com field. Error is: {Message}	Salesforce.com	Severe	<a href="#">InvalidS FDCField</a>
Invalid Salesforce.com object. Error is: {Message}	Salesforce.com	Severe	<a href="#">InvalidS FDCObject</a>
Invalid numeric value found in archive entries. Message is: {Message}	Archive	Warning	<a href="#">InvalidN umInArc hEntry</a>
Invalid or unsupported archive format.	Archive	Severe	<a href="#">InvalidU nArchFo rmat</a>
Invalid port number : {PortNumber}	JD Edwards	Warning	<a href="#">NumberFormatE rrор</a>
Invalid task state transition, marked job faulted	Mae stro	Severe	<a href="#">TaskStat eTransiti on</a>
Job log purge triggered. Available disk space is {DiskAvailPct}%. Specified trigger is {DiskAvailTrigger}%.	Platform	Info	<a href="#">Orcmon DiskTrig ger</a>
Job log purge triggered. Available disk space is {DiskAvailPct}%. Specified trigger is {DiskAvailTrigger}%. Purging using properties failed to clear enough disk space. Purging half of all job logs in attempt to recover disk space.	Platform	Warning	<a href="#">Orcmon DiskFull</a>
Job log purge triggered. Exceeded maximum duration since last purge.	Platform	Info	<a href="#">Orcmon PurgeBy TimeNP</a>
Job log purge triggered. There are {NumCompleted} completed jobs. Completed jobs threshold is {Threshold}.	Platform	Info	<a href="#">Orcmon PurgeBy Compl</a>
Job log purge triggered. There are {NumErrored} errored jobs. Errored jobs threshold is {Threshold}.	Platform	Info	<a href="#">Orcmon PurgeBy Errored</a>

Message	Module	Level	Notification
Job log purge triggered. Time since last purge exceeded {PurgeTime}.	Platform	Info	Orcmon PurgeBy Time
Job log purge/archive failed: {Message}.	Platform	Severe	Orcmon PurgeFailed
Job log purged {NumExported} jobs.	Platform	Info	Orcmon ExportedJobs
Job status changed to {Status}	Maestro	Info	TaskStatusChanged
List directory summary - Directory: {DirName}, Pattern: {Pattern}, NLIST? {ListOption}	FTP	Info	ListFileSummary
Listing completed with a return code {ResponseCode}.	FTP	Info	ListAfter
Logged key with name "{KeyName}" and value "{KeyValue}"	Maestro	Info	KeyLog
Looked up {NumberOfEntries} entries	Data Quality	Info	LookUpEntryCount
Looking up function {FunctionName} from SAP Repository	SAP	Info	FunctionLookup
Looking up function {FunctionName} from SAP Repository (complete)	SAP	Info	FunctionLookupComp
Lookup cache not preloaded	Data Quality	Info	NoPreloadedCache
Lookup cache preloaded with {NumberOfEntries} entries	Data Quality	Info	PreloadedCache
MDTM command is not supported by FTP server, using default timestamp of \"Jan 1, 1970\" instead.	FTP	Warning	TimeStampError
MDTM command is not supported by FTP server, using timestamp from listing instead. Please consult manual for possible side effects.	FTP	Warning	TimeStampCommand
MQ Endpoint Details: Host: {HostName}, Port: {PortNumber}, User: {UserName}, Queue Manager: {QueueManager}, Channel: {Channel}	WebSphere MQ	Info	MQConnectionInfo

Message	Module	Level	Notification
MQ Exception caught, reason code is {ReasonCode}	WebSphere MQ	Info	ReasonCode
MQMD header input parameter format is incorrect; {Header}	WebSphere MQ	Severe	MQMDFormatError
MQRFH2 header input parameter format is incorrect.	WebSphere MQ	Severe	MQRFHHeaderError
Mails processed in this poll deleted from server.	Email	Info	MailsDeleted
Matched email with From: \"{FromPattern}\" and Subject: \"{SubjectPattern}\".	Email	Info	EmailMatched
Merged {NumberOfEntries} left entries	Data Quality	Info	LeftMergeInputEntry
Merged {NumberOfEntries} right entries	Data Quality	Info	RightMergeInputEntry
Message name and version got does not match that set in activity. Set in activity: Message Name: {MessageName}, Message Version: {MessageVersion}. Actually Got: Message Name: {ActualMessageName}, Message Version: {ActualMessageVersion}	PeopleSoft	Severe	MessageNameVersion
Message of {QueueName} bytes retrieved from queue "{NumberOfBytes}".	WebSphere MQ	Info	MessageRetrieved
Message successfully delivered to queue {QueueManager}.	WebSphere MQ	Info	MessageDelievered
Mime-header type: {MainType}; sub-type: {SubType}.	MIME	Severe	MainAndSubType
Missing classes when trying to start activity {ActivityName}. PeopleSoft library may need to be installed on the appliance. Error is: {Message}	PeopleSoft	Severe	MissingLibraries
Missing classes when trying to start activity {ActivityName}. JDE library may need to be installed on the appliance. Error is: {Message}	JDEwards	Severe	ClassesMissing

Message	Module	Level	Notification
More than one entries found for BZIP2 operation.	Archive	Severe	InvalidBZipEntry
More than one entries found for GZIP operation.	Archive	Severe	InvalidGZipEntry
Name listing completed with a return code {ResponseCode}.	FTP	Info	NListAfter
Naming exception while configuring the subscriber activity. The exception is {Message}	JMS	Severe	SubscriberNameError
Naming exception while getting message to destination. The exception is {Message}	JMS	Severe	NamingException
Naming exception while sending message to destination. The exception is {Message} not found	JMS	Severe	SendNamingException
Network link {LinkName} on appliance {AffectedAppliance} is down (offline).	Platform	Warning	NetworkLinkDown
Network link {LinkName} on appliance {AffectedAppliance} is up (online).	Platform	Info	NetworkLinkUp
New Group {GroupName} has been created with id {Id}.	Platform	Info	GroupCreated
New User {UserName} has been created with id {Id}.	Platform	Info	UserCreated
No Message integrity check.	CryptoService	Info	NoIntegrityCheck
No attachments found. Nothing to serialize.	MIME	Severe	NoAttachments
No boundary value specified for multiple parts attachment. Using auto-generated boundary: {Boundary}.	MIME	Info	AutoGeneratedBoundary

<b>Message</b>	<b>Mod ule</b>	<b>L e v el</b>	<b>Notifica tion</b>
No data found in the interval.	Sale sforc e.co m	In fo	<a href="#">NoDataf ound</a>
No emails matched on the server.	Emai l	In fo	<a href="#">NoEmail Matched</a>
No input map for required parameter: {ParamName}	Mae stro	S e v er e	<a href="#">InputMa p</a>
No mail found on the server.	Emai l	In fo	<a href="#">NoMailO nServer</a>
No message available on queue "{QueueManager}" after {NumberOfRetryAttempts} attempt(s).	Web Sph ere MQ	S e v er e	<a href="#">NoMess ageFailu re</a>
No message available on queue "{QueueManager}". Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).	Web Sph ere MQ	W ar ni ng	<a href="#">NoMess ageRetr y</a>
No message available on queue {Queue}.	Web Sph ere MQ	In fo	<a href="#">NoMess age</a>
No return structure returned by BAPI {BAPIName}.	SAP	S e v er e	<a href="#">NonRetu nStruct</a>
No valid To, CC or BCC email address found.	Emai l	S e v er e	<a href="#">ToAndC CEmpty</a>
Not a known type of group.	Sche dule r	W ar ni ng	<a href="#">Schedul erUnkno wnType</a>
Not able to connect, error is: {Message}. Establishing a new session.	Sale sforc e.co m	In fo	<a href="#">Connecti onTryAg ain</a>
Not able to establish connectivity. Polling will fail till connectivity is established. However when connectivity is established, messages will be picked up from this time onwards.	Sale sforc e.co m	In fo	<a href="#">StillRun</a>

Message	Module	Level	Notification
Not able to find field Return as structure. {Message}	SAP	Info	FuncRetStructNotFound
Not able to get any record to do {OperationName} on. Returning false	PeopleSoft	Warning	NoOperationOnRecord
Null connection return by the connection pool.	SAP	Server	ConnectionPoolError
Number of emails on server is {NumberOfMails}.	Email	Info	Pop3NumMails
Number of parts {NumberOfParts}.	MIME	Info	NumberOfParts
On undeploy, found task {TaskName} whose state is {State}	Maestro	Server	TaskFound
Only Create Keys and no other properties specified. Create might not have created record.	PeopleSoft	Warning	CreateOnlyKeys
Opening the queue with set all privileges as {Value}	WebSphereMQ	Info	DetailsOpen
Operation name must not be null or empty!	Workday	Server	OperationNameNull
Operation name must not be null or empty!	WebService	Server	OperationNameNull
Operational failure on appliance {AffectedAppliance} was detected. System is restarting to recover.	Platform	Warning	SystemRecoveryRestart
Operational failure was detected on appliance {AffectedAppliance}. System is rebooting to recover. Uptime {Days} days, {Hours}:{Minutes}.	Platform	Warning	SystemRecoveryReboot

Message	Module	Level	Notification
Optional input 'emailConnection' parameter is mapped.	Email	Info	ConnectHeaderPresent
Optional input 'emailConnection' parameter is not mapped.	Email	Info	ConnectHeaderAbsent
Optional input 'mailheader' parameter is mapped.	Email	Info	MailHeaderPresent
Optional input 'mailheader' parameter is not mapped.	Email	Info	MailHeaderAbsent
Optional input parameter 'mimeheader' is mapped.	MIME	Info	MimeHeaderMapped
Optional input parameter 'mimeheader' not mapped.	MIME	Info	MimeHeaderNotMapped
Optional input parameter {ParamName} mapped.	Salesforce.com	Info	InputParamMapped
Optional input parameter {ParamName} not mapped.	Salesforce.com	Info	InputParamNotMapped
Orchestration already deployed: {OrchName}	Mae stro	Severe	AlreadyDeployed
Orchestration not deployed: {OrchName}	Mae stro	Severe	NotDeployed
Output parameter "{ParamName}" is over {Length} and is too large to log	Mae stro	Warning	LargeOutputParam
Outputted 'mailheader' and 'body' output parameters. Mail marked for deletion from server.	Email	Info	Pop3MailSent
Outputted 'mimeheader' and 'body' output parameters.	MIME	Info	SerialActivityDone
Outputted 'parts' output parameter.	MIME	Info	ParseActivityDone

Message	Module	Level	Notification
Outputted {OutputSize} objects in 'objects' output parameter.	Salesforce.com	Info	PollOutput
PGP Exception.	Crypto Service	Severe	PGPEception
Parameter at paramIndex {ParamIndex} and varIndex {VariableIndex} already set	Mae stro	Warning	ParamIndex
Parameter {ParamName} is not an XML document	Mae stro	Severe	NotDocParameter
Parameter {ParamName} is null	Mae stro	Severe	NullParam
Parameters: URI: "{URIValue}", Port: {PortValue}.	HTTP	Info	Receive UriPort Info
Parameters: URL: "{URL}", Method: "{MethodName}".	HTTP	Info	Request Params Details
Parsing Error: {Message}	Data	Severe	ParsingError
PeopleSoft Receive listening for events on URI: \"{UriValue}\" and port: \"{PortValue}\"	PeopleSoft	Info	ConfigURI
Please put the protocol used (e.g. {Protocol}) in front of the input parameter location: {LocationName}	Wor kday	Warning	MissingProtocol
Please put the protocol used (e.g. {Protocol}) in front of the input parameter location: {LocationName}	Web Service	Warning	MissingProtocol
Poll did not return any ids for interval starting from {PollStartTime} to {PollEndTime}.	Salesforce.com	Info	PollRetunedNothing

Message	Module	Level	Notification
Poll returned {NumberOfIds} ids for interval starting from {PollStartTime} to {PollEndTime}.	Salesforce.com	Info	PollReturnedResults
Port needs to be positive integer. Specified as: \"{PortNumber}\\". Defaulted to 110.	Email	Warning	IncorrectPort
Port needs to be positive integer. Specified as: \"{PortNumber}\\". Defaulted to 25.	Email	Warning	IncorrectSmtpPort
Post response code received from the server: {ResponseCode}	HTTP	Info	ServerResponseCode
Power sensor {PowerID} on appliance {AffectedAppliance} has reported a loss of power.	Platform	Warning	PowerInterrupted
Power sensor {PowerID} on appliance {AffectedAppliance} has reported power is restored.	Platform	Info	PowerRestored
Problem with querying. Error is: {Message}	Salesforce.com	Severe	InvalidQuery
Processed file "{FileName}". Leaving in place.	FTP	Info	FileProcessed
Processing attachment number {AttachmentNumber}.	MIME	Info	AttachmentNumber
Program in non-terminal state being destroyed: {ConfigURL}	Mae stro	Severe	ProgramDestroy
Publish of Configuration {ConfigName} failed: {Message}.	Mae stro	Severe	LoaderPublish
Put file summary - Directory: {DirName}, Filename: {FileName}, Overwrite? {OverwriteOption}, IsBinary? {BinaryOption}	FTP	Info	PutInfoSummary
Putting in queue with set all privileges as {Value}	WebSphere MQ	Info	MQPutDetails

Message	Module	Level	Notification
Received IDOC contains more than one type of IDOC type	SAP	Severe	IDOCTypepeError
Received an IDOC for idocType {IDOCType} and no activity was registered to process it. Ignoring the IDOC.	SAP	Warning	NoHandlerError
Received warning from queue manager. MQ reason code is {ReasonCode}.	WebSphere MQ	Warning	MQProtocolWarning
Removing Connection Pool with name {PoolName}	SAP	Info	Remove Info
Removing Server Gateway {GatewayName}.	SAP	Info	Gateway Remove Info
Rename file summary - fromDirectory: {DirName}, fromFilename: {FromFileName}, toPath: {ToPath}, Overwrite: {OverwriteOption}	FTP	Info	Rename InfoSummary
Renamed file from "{SrcFileName}" to "{DestFileName}" with return code {ResponseCode}.	FTP	Info	Rename After
Renaming file from "{SrcFileName}" to "{DestFileName}".	FTP	Info	Rename Before
Request is an unsupported media type. Response definition: {Message}	HTTP	Warning	UnSupportedMedia
RequestSecurityToken from Map Inputs is sent as request	STS	Info	InputBodyConsidered
Response definition received from the server: {ResponseDef}	HTTP	Info	ResponseDefinition
Response from Security Token Service is empty	STS	Severe	AssertionEmpty
Response is : {Message}	HTTP	Info	Receive ResponseBody
Running of job for orchestration {OrchName} aborted due to large number of waiting jobs	Maestro	Severe	TooManyWaitingJobs

Message	Module	Level	Notification
SAP Listener instance {InstanceNumber} started for SAP Gateway(host {HostName}, ProgramId {ProgramID}, Service {Service}).	SAP	Info	Listener Instance Info
SAP TID {TID} check requested by SAP.	SAP	Info	TIDCheck
SAP TID {TID} has been committed by SAP.	SAP	Info	TIDCommit
SAP TID {TID} has been confirmed and deleted from the TID Manager.	SAP	Info	TIDConfirmed
SAP TID {TID} has been rolled-back by SAP.	SAP	Info	TIDRollback
SAP attempting to confirm an unknown or uncommitted TID	SAP	Severe	TIDCommitUnknown
SAP has requested rollback for unknown TID {TID}. Cannot rollback.	SAP	Severe	TIDUnknown
SAP listener started again for host{HostName}, programid {ProgramID} and service {Service}.	SAP	Info	Listener StartInfo
SOAP message has been accepted by the Integration Appliance.	Workday	Info	DataMessageAccepted
SOAP message has been accepted by the Integration Appliance.	WebService	Info	DataMessageAccepted
Salesforce session timed out. The session was not created as optional connection input parameter was not mapped.	Salesforce.com	Severe	OptionalInputError
Salesforce.com logon failure. Error is: {Message}	Salesforce.com	Severe	LoginFailure
Salesforce.com returned an unexpected error: {Message}	Salesforce.com	Severe	UnexpectedSFDCFault
Schedules the Socket Janitor to run every {TimeInterval}	HTTP	Info	SocketJanitorScheduled

Message	Module	Level	Notification
Security Token Service Module has deprecated the input parameter "httpheaders/uri". The value: {Value} will be ignored. Please set the URL at the input parameter "location".	STS	Warning	UriDeprecated
Sending IDOC with the TID {TID} to sap.	SAP	Info	TIDSentInfo
Sending email to server.	Email	Info	SmtpSendEmail
Sending request to Security Token Service at location : {Location}	STS	Info	RequestLocation
Serialization Error: {Message}	Data	Server	SerializeError
Serialization Error: {Message}	Data	Server	SerializeIOError
Server Gateway {GatewayName} already exists, Using the existing definition.	SAP	Info	GatewayRegisterError
Session timed out. Establishing a new session.	Salesforce.com	Info	SessionInvalid
Setting BCC: \"{Value}\".	Email	Info	SetBCCFieldValue
Setting CC: \"{Value}\".	Email	Info	SetCCFieldValue
Setting From: \"{Value}\".	Email	Info	SetFromFieldValue
Setting Subject: \"{Value}\".	Email	Info	SetSubjectFieldValue
Setting To: \"{Value}\".	Email	Info	SetToFieldValue
Setting the client connection idle timeout at {TimeoutValue} seconds.	HTTP	Info	ClientIdleTimeout
Setting the client connection manager maximum number of connections at {MaxConnections}.	HTTP	Info	ClientMaxTotalConn
Setting the client connection manager timeout at {TimeoutValue} seconds.	HTTP	Info	ClientConnMgrTimeout

Message	Module	Level	Notification
Setting the client connection reclaim period at {ReclaimPeriodValue} seconds.	HTTP	Info	ClientReclaimPeriod
Setting the stale connection check at {StaleConnection}.	HTTP	Info	StaleConnectionCheck
Setting timeout as {Timeout} milliseconds.	Email	Info	SetTimeout
Setting timeout as {Timeout} milliseconds.	Email	Info	SmtpTimeout
Sorted {NumberOfEntries} entries	Data Quality	Info	SortInputEntryCount
Start of Orchestration {OrchName} failed: {Message}.	Mae stro	Server	LoaderStart
Started job for orchestration "{OrchName}"	Mae stro	Info	TaskStart
Starting batch of size {BatchSize} for index {startIndex} through {endIndex}.	Salesforce.com	Info	BatchPollStart
Starting the idle connection timeout thread.	HTTP	Info	IdleConTimeoutStart
Stop of Orchestration {OrchName} failed: {Message}.	Mae stro	Server	LoaderStop
Stopping the idle connection timeout thread.	HTTP	Info	IdleConTimeoutStop
Sub-type: {SubType}.	MIME	Info	SubType
Subject pattern \"{SubjectPattern}\" incorrect. Error is: {Message}.	Email	Server	SubjectPatternError
Subscriber started successfully for the topic {TopicName}	JMS	Info	SubscriberStartInfo
Successfully Read Private Key.	Crypto Service	Info	FoundPrivateKey

Message	Module	Level	Notification
Successfully Read Public Key.	Crypto Service	Info	FoundPublicKey
Successfully executed activity and outputted output parameter RESPONSE.	Siebel	Info	InvokeSuccessfull
Successfully received request and outputted output parameter RESPONSE.	Siebel	Info	ReceiveSuccessful
Successfully received request in PeopleSoft Receive and outputted output parameter response	PeopleSoft	Info	ReceiveSuccessful
Successfully upgraded Cast Iron firmware on appliance {AffectedAppliance} from version {OldVersion} to version {NewVersion}.	Platform	Info	UpgradeComplete
Suspend of Orchestration {OrchName} failed: {Message}.	Mae stro	Severe	LoaderSuspend
Swap space usage has exceeded the {Threshold}% critical threshold - current usage is {Usage}%	Platform	Severe	SwapUsageCritical
Swap space usage has exceeded the {Threshold}% warning threshold - current usage is {Usage}%	Platform	Warning	SwapUsageWarning
Swap space usage is now below the {Threshold}% critical threshold - current usage is {Usage}%	Platform	Info	SwapUsageCritOk
Swap space usage is now below the {Threshold}% warning threshold - current usage is {Usage}%	Platform	Info	SwapUsageWarnOk
TID not set in the task state.	SAP	Severe	InvalidTIDerror
TID {TID} committed successfully.	SAP	Info	TIDCommittedInfo
Temperature {TempID} on appliance {AffectedAppliance} is out of range. Current={CurrentTemperature} deg C. Maximum={MaximumTemperature} deg C.	Platform	Severe	TemperatureOutOfRange

Message	Module	Level	Notification
Temperature {TempID} on appliance {AffectedAppliance} is restored. Current={CurrentTemperature} deg C. Maximum={MaximumTemperature} deg C.	Platform	Info	TemperatureRestored
The Content-Encoding header is {ContentEncodingValue}	HTTP	Info	ContentEncodingType
The Content-Encoding of the incoming request is {ContentEncodingValue}. Decompressing the body.	HTTP	Info	DecompressedEncoding
The Domino {ActivityName} activity re trying {Count} times now.	Domino	Info	RetryCount
The HA system is Highly Available with appliance {AffectedAppliance} acting as Active.	Platform	Info	HighAvailReady
The HA system is not Highly Available. Active appliance is {AffectedAppliance}.	Platform	Warning	HighAvailNotReady
The High Availability peer {AffectedAppliance} has successfully taken over.	Platform	Info	HighAvailFailover
The IDOC number {IDOCNumber} contains no data segment.	SAP	Warning	NoSegmentWarning
The RAID array on appliance {AffectedAppliance} is degraded.	Platform	Server	RaidArraDegrade
The RAID array on appliance {AffectedAppliance} is offline. Please contact Cast Iron Support.	Platform	Server	RaidArraOffline
The RAID array on appliance {AffectedAppliance} is optimal.	Platform	Info	RaidArraOptimal
The RAID disk {DiskID} on appliance {AffectedAppliance} has failed.	Platform	Server	RaidDiskFailed
The RAID disk {DiskID} on appliance {AffectedAppliance} is online.	Platform	Info	RaidDiskOnline
The RAID disk {DiskID} on appliance {AffectedAppliance} is rebuilding.	Platform	Info	RaidDiskRebuilding
The SFTP key access is: {ModeInformation}	FTP	Info	SshModeInfo

Message	Module	Level	Notification
The Socket Janitor has completed this run.	HTTP	Info	SockCollectorFinish
The Value:"{HeaderVal}" set for Http Header:"{HeaderName}" was ignored because the type is not supported.	HTTP	Info	RequestIgnoredHeader
The activity is recovering and the message with id: {MessageID} is already delivered. Skipping it	JMS	Info	RecoveryInfo
The appliance is in recovery mode and the first message id {JMSMessageID} is not matching the id {FirstMessageID} of delivered message. Messages in the queue is tampered and will impact the delivery of messages.	JMS	Warning	FirstIDWarning
The appliance {AffectedAppliance} has been opened, possibly leading to system failure. Please contact Cast Iron Support.	Platform	Severe	IntrusionSevere
The appliance {AffectedAppliance} has been opened.	Platform	Warning	IntrusionInform
The appliance {AffectedAppliance} is finished initializing after reboot.	Platform	Info	SystemInitComplete
The appliance {AffectedAppliance} is initializing after being shut down or rebooted.	Platform	Info	SystemInitStarted
The buffer table contains the {OperationName} operation but there is no activity in the orchestration for that operation. This is not a valid configuration.	Database	Severe	OperationNameAbsent
The condition provided for if-then activity [{ActivityName}] and case label [{CaseLabel}] is empty	Maestro	Severe	SwitchExpEmpty
The condition provided for while activity [{ActivityName}] is empty	Maestro	Severe	WhileExpEmpty
The data encoding specified: \"{DataEncoding}\\" is not supported.	FTP	Severe	EncodingError
The datasource with the name {DataSourceName} is registered with hash code: {HashCodeName}	Database	Info	DataSourceHashCode

Message	Module	Level	Notification
The delete query issued to the buffer table is {Query}	Data base	In fo	<a href="#">DeleteSQL</a>
The delete query, with id, issued to the buffer table is {Query}	Data base	In fo	<a href="#">DeleteSQLWithId</a>
The following datasource name is registered with the system.	Data base	In fo	<a href="#">DataSourceRegistered</a>
The input connection parameter is not mapped.	HTTP	In fo	<a href="#">ReadConnectionParam</a>
The input parameter "{InputParam}" is zero length.	Web Sphere MQ	Se ver e	<a href="#">InputParamNull</a>
The input parameter header is not set.	HTTP	In fo	<a href="#">ReadInputHeaders</a>
The jms connector is in recovery mode.	JMS	In fo	<a href="#">RecoveryInfo</a>
The loopback port values persisted in the sysconf: {LoopBackString}	HTTP	In fo	<a href="#">HttpLoopBackValues</a>
The maximum number of rows for one poll on table {TableName} was reached. If this is a frequent occurrence, then alter the threshold!	Data base	In fo	<a href="#">MaxRowExceeded</a>
The message format field "{Format}" is invalid. Supported formats are MQSTR, MQHRF2, and no format.	Web Sphere MQ	Se ver e	<a href="#">FormatError</a>
The number of attachments found is {NumberOfAttach}.	MIME	In fo	<a href="#">AttachmentsFound</a>
The provide activity is started on local transport for the URI: {URI}	Workday	In fo	<a href="#">TransportInfo</a>
The provide activity is started on local transport for the URI: {URI}	WebService	In fo	<a href="#">TransportInfo</a>
The query for the parameterized query activity is: {QueryString}	Data base	In fo	<a href="#">ParameterizedQuery</a>
The request operation failed. Exception: {Message}	HTTP	Se ver e	<a href="#">SendRequestOperation</a>
The required schema for {Name} is missing. The activity {ActivityName} generating schemas.	Domain	In fo	<a href="#">SchemaInvoke</a>

Message	Module	Level	Notification
The response Content-Encoding from the server is {ContentEncodingValue}. Decompressing the body.	HTTP	Info	CompressFormat
The response Content-Encoding is {ContentEncodingValue}.	HTTP	Info	ReplyCompressFormat
The response is binary.	HTTP	Info	ResponseBodyBinary
The response is not binary.	HTTP	Info	ResponseBodyNotBinary
The row is already delivered to the database. Skipping it.	Database	Warning	RedeliverySkip
The select query issued for the buffer table is {Query}	Database	Info	QueryString
The send request failed. Exception: {Message}	HTTP	Error	GeneralRequestFailed
The server response contained an unsolicited Content-Encoding: {ContentEncoding}. Acceptable values are: {AcceptEncoding}	HTTP	Error	UnsolicitedEncoding
The stored procedure query issued to the database is {QueryString}	Database	Info	StoredProcQuery
The type of Accept-Encoding in the request-header field is {AcceptEncodingValue}	HTTP	Info	AcceptEncodingType
The unicode instance property is set through JCONSOLE	SAP	Info	UnicodeGateway
The update query issued to the buffer table for marking rows is {Query}	Database	Info	UpdateQuery
The {Field} email address {EmailID} specified in optional parameters is not in correct format. Not setting the same.	Email	Warning	InvalidAddressFormat
There are no more activities to listen for on port {PortNumber}. Stopping the listener on port {PortNumber}.	HTTP	Info	HttpListenerStop
There is an unusually large file, {LargeFile}, of size {FileSize} MB.	Platform	Warning	LargeFileWarning

<b>Message</b>	<b>Module</b>	<b>Level</b>	<b>Notification</b>
There is no message to be retrieved from the destination {Destination}	JMS	Info	NoMessage
This error may be due to JMS Provider library being not installed on the appliance. Please install the JMS provider library using Web management console. The error is {Message}	JMS	Server	LibraryNotInstalled
This part does not have any body. Setting blank body.	MIME	Info	NoPartBody
Tid {TIDNumber} not found in TID manager.	SAP	Server	ReceiveTIDNotFound
Timeout needs to be positive integer. Specified as: \"{Timeout}\\". Defaulted to 300 seconds.	Email	Warning	IncorrectTimeout
Timeout needs to be positive integer. Specified as: \"{Timeout}\\". Defaulted to 300 seconds.	Email	Warning	IncorrectSmtpTimeout
Timeout waiting for jobs to stop, number of jobs abandoned: {NumberOfAbandonedJobs}	Mae stro	Warning	AbandonedJobs
Trying to delete item {ItemNumber} which is out of range. Returning false	PeopleSoft	Warning	OutOfRange
Unable to compile the orchestration {OrchName}	Mae stro	Server	OrchCompileError
Unable to connect to JDE after {NumberOfRetryAttempts} attempts. Error is: {Message}	JD Edwards	Server	JDEConnectError
Unable to connect to NetSuite after {NumberOfRetryAttempts} attempts. Error is: {Message}.	NetSuite	Server	ConnectionFailed

Message	Module	Level	Notification
Unable to connect to NetSuite. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).	NetSuite	Warning	<a href="#">ConnectionRetry</a>
Unable to connect to PeopleSoft after {NumberOfRetryAttempts} attempts. Error is: {Message}	PeopleSoft	Severe	<a href="#">ConnectionError</a>
Unable to connect to Salesforce.com after {NumberOfRetryAttempts} attempts. Error is: {Message}.	Salesforce.com	Severe	<a href="#">ConnectionFailed</a>
Unable to connect to Salesforce.com. Error is: {Message}.	Salesforce.com	Severe	<a href="#">Connect Failed</a>
Unable to connect to Salesforce.com. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).	Salesforce.com	Warning	<a href="#">ConnectionRetry</a>
Unable to connect to server after {NumberOfRetryAttempts} attempts. Error is: {Message}.	Email	Severe	<a href="#">Connect Error</a>
Unable to connect to server after {NumberOfRetryAttempts} attempts. Error is: {Message}.	Email	Severe	<a href="#">SmtpConnectFailed</a>
Unable to connect to server after {NumberOfRetryAttempts} attempts. Error is: {Message}.	HTTP	Severe	<a href="#">SendRequestConnection</a>
Unable to connect to server after {NumberOfRetryAttempts} attempts. The error is: {Message}	Siebel	Severe	<a href="#">Connect Error</a>
Unable to connect to server. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).	Email	Warning	<a href="#">Connect ErrorRetry</a>

Message	Module	Level	Notification
Unable to connect to server. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).	Email	Warning	<a href="#">SmtpConnectRetry</a>
Unable to connect to server. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).	Siebel	Warning	<a href="#">ConnectionRetry</a>
Unable to connect to the Queue Manager "{QueueManager}" after {NumberOfRetryAttempts} attempt(s). MQ returned error code "{ErrorCode}".	WebSphere MQ	Severe	<a href="#">ConnectionError</a>
Unable to connect to the Queue Manager "{QueueManager}". MQ returned error code "{ErrorCode}". Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).	WebSphere MQ	Warning	<a href="#">ConnectRetry</a>
Unable to connect to the SAP server after {NumberOfRetryAttempts} attempts. Error is: Error Group {ErrorGroup}, Error Key {ErrorKey}, Error Message {Message}	SAP	Severe	<a href="#">ConnectError</a>
Unable to connect to the SAP server. Error is: Error Group: {ErrorGroup} Error Key {ErrorKey} Error Message {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {RetryAttemptNumber} second(s).	SAP	Warning	<a href="#">ConnectRetry</a>
Unable to connect to the server \'{ServerName}\' after {NumberOfRetryAttempts} attempts. Error is: {Message}	FTP	Severe	<a href="#">ConnectionFailure</a>
Unable to connect to the server \'{ServerName}\'. Error is: {Message} Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).	FTP	Warning	<a href="#">ConnectionRetry</a>
Unable to connect to the server. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).	HTTP	Warning	<a href="#">ConnectionRetry</a>
Unable to create call context: {Message}	Maestro	Severe	<a href="#">CallContext</a>

Message	Module	Level	Notification
Unable to delete rows from buffer table {TableName}.	Database	Severe	DeleteRowsFailure
Unable to enqueue to orchestration: {Message}	Maestro	Severe	EnqueueFailed
Unable to execute to orchestration: {Message}	Maestro	Severe	ExecuteError
Unable to find RFC {RFCName}. Invalid RFC name.	SAP	Severe	InvalidRFCName
Unable to find the BAPI transaction RFC's.	SAP	Severe	TransactionalError
Unable to get message from queue {QueueName}. MQ returned error code {ErrorCode}.	WebSphere MQ	Severe	PollFailure
Unable to get message from queue {QueueName}. MQ returned error code {ErrorCode}.	WebSphere MQ	Severe	GetFailure
Unable to invoke method {MethodName} on the data source object. This might cause unexpected behavior. Please check the connection properties	Database	Info	MethodNotFound
Unable to obtain meta data from Salesforce.com for {NameOfObject}. Error is: {Message}	Salesforce.com	Severe	MetadataObjectError
Unable to obtain meta data from Salesforce.com. Error is: {Message}	Salesforce.com	Severe	MetadataError
Unable to parse the catch expression: {Message}	Maestro	Severe	CatchExpression

Message	Module	Level	Notification
Unable to parse the date and time: {DateTimeValue} {Message}	Database	Severe	DateTimeParseError
Unable to parse the if-then expression: {Message}	Mae stro	Severe	SwitchExpression
Unable to parse the while expression "{ConditionSpecified)": {Message}	Mae stro	Severe	WhileExpression
Unable to perform operation \'{OperationName}\'. Error is: {Message}	FTP	Severe	OperationError
Unable to process the request. Additional information about the error can be found on the Web Management Console.	Workday	Severe	CleanUp Message
Unable to process the request. Additional information about the error can be found on the Web Management Console.	Web Service	Severe	CleanUp Message
Unable to put message on queue {QueueManager}. MQ returned error code {ErrorCode}.	Web Sphere MQ	Severe	MQPutFailure
Unable to remove task {TaskID}	Mae stro	Severe	TaskRemove
Unable to send the SOAP request to {LocationName}. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will retry again in {IntervalForRetries} second(s).	Workday	Warning	Connect Retry
Unable to send the SOAP request to {LocationName}. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will retry again in {IntervalForRetries} second(s).	Web Service	Warning	Connect Retry

Message	Module	Level	Notification
Unable to set state of task {CurrentState} to {FinalState}	Mae stro	Se ver e	<a href="#">TaskStat e</a>
Unable to set the query time out for database {DBType}. The exception is {Message}	Data base	War ning	<a href="#">SetQuer yTimeou t</a>
Unarchiver created successfully, now performing unarchiving.	Arch ive	In fo	<a href="#">UnArch iVerCreat ed</a>
Undeploy of Orchestration {OrchName} failed: {Message}.	Mae stro	Se ver e	<a href="#">Loaderu nDeploy</a>
Unexpected IO error while performing operation with NetSuite. The exception is {Message}	NetS uite	Se ver e	<a href="#">IOError</a>
Unexpected IO exception while streaming the message. The exception is {Message}	NetS uite	Se ver e	<a href="#">StreamE rror</a>
Unexpected error from server: {Message}.	Emai l	Se ver e	<a href="#">Pop3Ser verError</a>
Unknown exception while invoking an operation on NetSuite. The exception is {Message}	NetS uite	Se ver e	<a href="#">UnknownError</a>
Uploaded file "{FileName}" to server with return code {ResponseCode}.	FTP	In fo	<a href="#">PutAfter</a>
Uploading file "{FileName}" to server.	FTP	In fo	<a href="#">PutBefor e</a>
User {UserName} displayName has been changed from {OldValue} to {NewValue}.	Platf orm	In fo	<a href="#">UpdateU ser</a>
User {UserName} has been deleted.	Platf orm	In fo	<a href="#">UserDel eted</a>
User {UserName} has been granted role of {GroupName}.	Platf orm	In fo	<a href="#">GrantRol e</a>
User {UserName} has been revoked of the role {GroupName}.	Platf orm	In fo	<a href="#">RevokeR ole</a>

Message	Module	Level	Notification
User {UserName} status has been changed from {OldValue} to {NewValue}.	Platform	Info	UpdateStatus
User {UserName} with session id {SessionId} logged out successfully.	Platform	Info	AuthLogout
Validation is {ValidationStatus} for {Value}	SAP	Info	ValidationInfo
Variable "{VariableName}" is over {Length} and is too large to log	Mae stro	Warning	LargeVariable
Variable "{VariableName}" is too large, please turn on persistence for this orchestration	Mae stro	Severe	LargeNonpersistentVar
Variable {ParamName} is not an XML document	Mae stro	Severe	NotDocVariable
Variable {VarName} is null	Mae stro	Warning	VariableNull
Variable {VariableName} is null	Mae stro	Severe	NullVariable
Warning/error messages while doing setup for {ActivityName}: {Message}	JD Edwards	Warning	SetUpInfo
Warning/error messages while initializing {ActivityName}: {Message}	PeopleSoft	Warning	SetupInfo
Web Service Module has deprecated the input parameter "httpheaders/uri". The value: {Value} will be ignored. Please set the URL (e.g. http://www.castiron.com/WebService) at the location in the endpoint panel or at the input parameter "location".	WebService	Warning	UriDeprecated
Workday Module has deprecated the input parameter "httpheaders/uri". The value: {Value} will be ignored. Please set the URL (e.g. http://www.castiron.com/Workday) at the location in the endpoint panel or at the input parameter "location".	Workday	Warning	UriDeprecated

Message	Module	Level	Notification
[URI: {Uri}, Port: {Port}, Operation Name: {OperationName}] Web Service has already been registered. Key: {RegistrationKey}	WebService	Severe	Already Registered
[URI: {Uri}, Port: {Port}, Operation Name: {OperationName}] Workday has already been registered. Key: {RegistrationKey}	Workday	Severe	Already Registered
[URI: {Uri}, Port: {Port}, Operation Name: {OperationName}] has not been registered. Key: {KeyName}	Workday	Severe	NotRegistered
[URI: {Uri}, Port: {Port}, Operation Name: {OperationName}] has not been registered. Key: {KeyName}	WebService	Severe	NotRegistered
jas.ini file needs to be present before the JD Edwards Invoke activity can be run. Please upload jas.ini file and run again.	Siebel	Severe	Missing Libraries
unarchiving done successfully.	Archive	Info	UnarchiveDone
{ActivityName} activity created successfully.	Domino	Info	ActivityCreateSuccess
{ActivityName} activity executed successfully.	Domino	Info	ActivitySuccessful
{ActivityName} activity execution failed due to {Name} property is blank.	Domino	Severe	ActivateFailureBlank
{ActivityName} executed and outputted response output parameter	JD Edwards	Info	ActivitySuccessful
{ActivityName} executed and outputted response output parameter	PeopleSoft	Info	ActivitySuccessful
{ActivityName} listening for events on URI: \"{UriValue}\" and port: \"{PortValue}\".	Siebel	Severe	ConfigURI

Message	Module	Level	Notification
{FileName}: File with the same name exists on the FTP server. It is a duplicate!	FTP	Severe	PutDuplicateFileName
{FileName}: File with the same name exists on the FTP server. It is a duplicate!	FTP	Severe	RenameDupError
{MessageType} messages while executing activity: {Message}	Domino	Warning	RunningMessages
{MessageType} messages while executing activity: {Message}	PeopleSoft	Warning	RunningMessages
{Message}	HTTP	Info	EndpointInformation
{Message}	Worckday	Severe	WDFaultString
{Message}	WebService	Severe	WSFaultString
{NumberOfEmails} mails to be deleted now as they were processed earlier.	Email	Info	MailsToBeDeleted

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/log\\_message\\_reference.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/log_message_reference.html)

## **WebSphere DataPower Cast Iron Management API Guide**

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This information center provides information for WebSphere® DataPower® Cast Iron® Management API Guide .

 Last updated: Thursday, 2 June 2016  
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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00000.html>

## Introduction

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This information center provides information for WebSphere® DataPower® Cast Iron® Management API Guide .

### About WebSphere DataPower Cast Iron Management API Guide

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The Management API guide is written for developers and IT personnel who want to manage Integration Appliance and the Cloud by using applications or scripts.

This guide assumes that you have an intermediate level of expertise in integration projects and some experience in supporting and managing an IT environment.

### Integration Appliance and Cloud documentation

---

To view PDF documents, download Adobe Reader version 5 or higher from Adobe Systems Inc., see <http://www.adobe.com>.

You can access documentation from the Documentation CD.

The documentation set includes the following books:

#### Command Line Interface Reference

Reference information about commands available from the Command Line Interface (CLI).

#### Getting Started Guide

An overview of Integration Appliance and Studio, and summary information about using Studio to create integration projects that run on the Integration Appliance

#### HA Overview Guide

A high-level overview about High Availability (HA) pairs. This guide includes information about HA pair states, configuration requirements, commands, and troubleshooting issues.

#### Management API Guide

Information for the Management API for the Cloud and Integration Appliances.

### Documentation conventions

---

The following table describes the conventions that are used in this document.

Convention	Description
<Hostname> command	Examples of using commands are shown in this document in this format.
enter exactly as shown	Procedures might also include instructions on what you should enter for particular fields, prompts, or commands. Information in this font must be typed exactly as shown.
net set interface dataaddress <port-address>	Placeholders are shown between angle brackets (<>) and generally indicate the type of information you should supply in the command.
Menu > Submenu	Instructions that use menu commands use the greater than symbol (>) to indicate submenus, for example, click Configuration > Notifications.

### Other resources

---

In addition to the product information, IBM® provides these other resources:

- Online help
- Information centers
- Knowledge Base

- Product Support

#### Online help

Online help is accessible from Studio and the Web Management Console.

#### IBM website

You can access the IBM Corporation website at: <http://www.ibm.com>.

The site contains information about the IBM Corporation, its background, and products. The site also provides contact information for sales and technical support.

#### Contacting IBM support

IBM support provides assistance with product defects. Before contacting IBM support, the following criteria must be met:

- Your company has an active maintenance contract.
- You are authorized to submit problems.

Submit the problem in one of two ways:

- Electronically through the Service Request (SR) problem submission tool. You must sign in with your IBM ID and password.
- Telephone. Refer to the directory of worldwide contacts in the IBM Software Support Handbook for the appropriate software support phone number to call.

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## Overview of the Management API guide

An overview of the Management API. The API provides management capabilities for Clouds and Integration Appliances.

The Management API is implemented as a web service. This web service provides a way to manage WebSphere® DataPower® Cast Iron® Appliances (Integration Appliances) and WebSphere Cast Iron Cloud (Cloud) projects through your applications or scripts.

The API provides Integration Appliance and Cloud management in the following areas:

#### Deployment

Provides operations to create, get, and delete configurations, rules, and projects. You can start, pause, stop, and cancel jobs. You can import or export repositories.

#### Security

Provides operations to create, get, list, and delete users, roles, and permissions. You can log in and log out by using the security WSDL.

#### Staging

Checks whether the staging database is started and starts or stops the staging database. (Applies to appliances only.)

#### System Administration

Sets or gets the appliance name or network configuration. You can also run system commands or get system information. (Applies to appliances only.)

#### Job Monitoring

Searches for job, gets job count, and gets job details. You can also set and get job monitoring properties.

#### Logs and Notifications

Saves, gets, and deletes notification policies. You can also get and set email and SNMP endpoints, set and get log levels, and get log count.

The Management API complies with the following web services standards:

- Web Services Interoperability Organization (WS-I) Basic Profile 1.0
- SOAP 1.1
- Web Services Description Language (WSDL) 1.1
- XML Schema 1.1

You can create client applications that call web services operations to manage and monitor Integration Appliances and Cloud projects. Communication between the client application and the Integration Appliance orCloud project is accomplished by using HTTP or HTTPS.

The Management API is defined in WSDL files. Client applications call web services operations by sending SOAP messages. SOAP messages are formatted in XML and so are programming language neutral.

## Examples of SOAP messages

---

This section provides examples of logging in, getting a user and logging out using the Management API - Security WSDL.

The following code is an example of a SOAP request to log in.

Note: If you are using Management API for Cast Iron Live, use the IBM ID credential for the username and password fields.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
<soapenv:Header/>
<soapenv:Body>
<sec:login>
<sec:username>webuser@mycompany.com</sec:username>
<sec:password>D3nu9noB</sec:password>
</sec:login>
</soapenv:Body>
</soapenv:Envelope>
```

The following code is an example of a SOAP reply to the request to log in.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:loginResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/router/1000/security/03">
<ns2:sessionId>8F059BEEA3611033D277773A95404641</ns2:sessionId>
</ns2:loginResponse>
</S:Body>
</S:Envelope>
```

The *sessionId* is required to perform other SOAP operations after you log in to an Integration Appliance or the Cloud.

The following code is an example of a SOAP request to get a user.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
<soapenv:Header>
<sec:sessionId>8F059BEEA3611033D277773A95404641</sec:sessionId>
</soapenv:Header>
<soapenv:Body>
<sec:getUser>
<sec:username>webuser</sec:username>
</sec:getUser>
</soapenv:Body>
</soapenv:Envelope>
```

The following code is an example of a SOAP response to the request to get a user.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:getUserResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/router/1000/security/03">
<ns2:user>
<ns3:id>8F059BEEA3611033D277773A95404641</ns3:id>
<ns3:name>webuser</ns3:name>
<ns3:encPasswd>{SHA}c1020r2ZJMJCDrNwXQzhWB8YcdI=</ns3:encPasswd>
<ns3:displayName>WebServiceUser</ns3:displayName>
<ns3:isActive>true</ns3:isActive>
<ns3:isMutable>true</ns3:isMutable>
<ns3:isVisible>true</ns3:isVisible>
<ns3:email>webuser@mycompany.com</ns3:email>
<ns3:createdTime>2010-03-02T22:11:32.935Z</ns3:createdTime>
<ns3:failedLoginCount>0</ns3:failedLoginCount>
```

```

<ns3:scopeId>B47EAECF6AD14AA028B4EA038CB742D0</ns3:scopeId>
<ns3:scopeType>Tenant</ns3:scopeType>
</ns2:user>
</ns2:getUserResponse>
</S:Body>
</S:Envelope>

```

The following code is an example of a SOAP request to logout.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
  <soapenv:Header>
    <sec:sessionId>8F059BEEA3611033D277773A95404641</sec:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sec:logout/>
  </soapenv:Body>
</soapenv:Envelope>

```

## Cloud examples

---

The following examples apply to the Cloud only.

The previous examples used SOAP operations that ran in a tenant in the Cloud or an Integration Appliance. To run operations in environments within a tenant in the Cloud, you use the setCurrentScope operation to set the scope to the environment where you want to run SOAP operations.

The following example sets the scope to the development environment and then starts a project located in the development environment.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
  <soapenv:Header>
    <sec:sessionId>63Y93HD6D856EB5812EB71216C3547W7</sec:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sec:setCurrentScope>
      <sec:scopeName>Development</sec:scopeName>
    </sec:setCurrentScope>
  </soapenv:Body>
</soapenv:Envelope>

```

The following example is the SOAP response to the request.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:setCurrentScopeResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/router/1000/security/03">
      <ns2:success>true</ns2:success>
    </ns2:setCurrentScopeResponse>
  </S:Body>
</S:Envelope>

```

The following example is a SOAP request to start a configuration in the development environment.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">
  <soapenv:Header>
    <dep:sessionId>63Y93HD6D856EB5812EB71216C3547W7</dep:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <dep:start>
      <dep: projectName>HTTP_363i</dep: projectName>
      <dep: version>1.0</dep: version>
      <dep: configName>HTTP_363j</dep: configName>
    </dep:start>
  </soapenv:Body>
</soapenv:Envelope>

```

The following example is the SOAP response to the request.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>

```

```
<ns2:startResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
<ns2:success>true</ns2:success>
</ns2:startResponse>
</S:Body>
</S:Envelope>
```

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00001.html>

## WSDL files

---

Client-side web services use the WSDL file to create stubs that enable client-side applications to interact with an Integration Appliance or Cloud project.

The WSDL files specify the operations that a client application can use to install, manage, and monitor an Integration Appliance or Cloud project.

The Management API is defined in six WSDL files:

- security.wsdl
- staging.wsdl
- deployment.wsdl
- system.wsdl
- orcmmon.wsdl
- lognotif.wsdl

You can download the WSDL files from the following locations for an Integration Appliance:

- Security: <https://<appliance>/ws/security?wsdl>
- Staging: <https://<appliance>/ws/staging?wsdl>
- Deployment: <https://<appliance>/ws/deployment?wsdl>
- System: <https://<appliance>/ws/system?wsdl>
- Orcmon: <https://<appliance>/ws/orcmon?wsdl>
- Lognotif: <https://<appliance>/ws/lognotif?wsdl>

You can download the WSDL files from the following locations for the Cloud:

- Security: <https://cloud2.castiron.com/ws/security?wsdl>
- Staging: <https://cloud2.castiron.com/ws/staging?wsdl>
- Deployment: <https://cloud2.castiron.com/ws/deployment?wsdl>
- System: <https://cloud2.castiron.com/ws/system?wsdl>
- Orcmon: <https://cloud2.castiron.com/ws/orcmon?wsdl>
- Lognotif: <https://cloud2.castiron.com/ws/lognotif?wsdl>

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# Glossary of terms for WebSphere DataPower Cast Iron Management API Guide

---

This glossary defines WebSphere® DataPower® Cast Iron® Management API Guide terms that are used in this documentation.

This glossary contains terms specific to WebSphere DataPower Cast Iron Management API Guide .

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

## E

### environment

In the Cloud, an environment is a subdivision of a tenant. A typical tenant contains development, staging, and production environments. An environment has its own administrators, users, roles, and role groups. After a project is completed in the Modify tab, it is published to an environment where it can be deployed, tested, and run. The administrator role of an environment can assign users to roles and roleGroups. In addition, the administrator role can create, deploy, run, clone, and delete projects and configurations in the environment.

[TOP](#)

## R

### role

Role is a way to provide users with a pre-defined set of permissions. When an administrator assigns a role to a user the user is able to access all of the projects to which the role has permissions. The user can also perform all of the actions for which the role has permissions. In the Cloud, the user gets access to any tenants and environments to which the role has permissions.

### roleGroup

Use to combine roles into a single entity which can then be assigned to users. A user assigned to a roleGroup inherits all of the access and permissions that the roles in the roleGroup are given.

[TOP](#)

## S

### scope

In the Cloud, scope refers to either a tenant or an environment within a tenant. You use setCurrentScope to set the scope to where you want to run SOAP operations. Scope applies to the Cloud only.

[TOP](#)

## T

### tenant

The Cloud is a multi-tenant cloud as opposed to a single-tenant cloud. Each tenant can be divided into environments such as development, staging, and production. The administrator role of the tenant can assign users to environments, roles, and roleGroups. In addition, the administrator role can create, deploy, run, clone, and delete projects and configurations in the tenant and environments within the tenant.

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## Security

---

Information about the security WSDL.

The security WSDL provides operations to create, get, list and delete users, roles, and permissions. You log in and log out by using the security WSDL.

This section contains the following topics:

- [addRoleToRoleGroup](#)
- [changePassword](#)
- [clearPrivileges](#)
- [createRole](#)
- [createUser](#)
- [currentScope](#)
- [deleteRole](#)
- [deleteUser](#)
- [disableUser](#)
- [enableUser](#)
- [filterNewUsers](#)
- [filterUsers](#)
- [getGrantedRoles](#)
- [getImpliedRoles](#)
- [getKerberosRealm](#)
- [getKerberosServer](#)
- [getRole](#)
- [getRoleById](#)
- [getRoleGroups](#)
- [getRoles](#)
- [getRolesInRoleGroup](#)
- [getRoleUsers](#)
- [getScope](#)
- [getScopeById](#)
- [getScopesByParentId](#)
- [getUser](#)
- [getUserById](#)
- [getUsers](#)
- [grantPrivilege](#)
- [grantPrivileges](#)
- [grantRole](#)
- [hasPrivilege](#)
- [isRealmUser](#)
- [isEnabled](#)
- [listAvailableActions](#)
- [listGrantableRoles](#)
- [listPrivileges](#)
- [listRoles](#)
- [listUsers](#)
- [login](#)
- [logout](#)
- [removeKerberosConfiguration](#)
- [removeRoleFromRoleGroup](#)
- [revokePrivilege](#)
- [revokeRole](#)
- [roleExists](#)
- [setCurrentScope](#)
- [setCurrentScopeById](#)
- [setKerberosConfiguration](#)
- [setLdapConfiguration](#)
- [updateRole](#)
- [updateUser](#)
- [userExists](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00005.html>

## addRoleToRoleGroup

---

Adds the specified role as a member to the specified group.

Applies to Clouds and Integration Appliances.

### Parameters:

---

**role**

The name of the role.

**group**

The name of the group to which the role is to be added.

Returns:

True if the role is successfully added to the group.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00006.html>

## changePassword

---

Changes the password for the specified username.

### Parameters:

---

**username**

The username for which the password is to be changed.

**oldPassword**

The old password for the username.

**newPassword**

The new password for the username.

Returns:

True if the password was successfully changed.

### Examples:

---

The following example is a SOAP request to change the password for a user.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
    xmlns:sec="http://www.approuter.com/schemas/2008/1/security">  
    <soapenv:Header>  
        <sec:sessionId>B0097A43C5527FA552C3DBA7EF74CE9</sec:sessionId>  
    </soapenv:Header>  
    <soapenv:Body>  
        <sec:changePassword>  
            <sec:username>webman</sec:username>  
            <sec:oldPassword>Oldpw12g</sec:oldPassword>
```

```

<sec:newPassword>Newpw24e</sec:newPassword>
</sec:changePassword>
</soapenv:Body>
</soapenv:Envelope>

```

The following example is the SOAP response to the request.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:changePasswordResponse xmlns:ns2="http://www.approuter.com/
schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/
router/1000/security/03">
<ns2:success>true</ns2:success>
</ns2:changePasswordResponse>
</S:Body>
</S:Envelope>

```

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00007.html>

## clearPrivileges

Clears privileges for the specified target, such as a user.

Applies to Clouds and Integration Appliances.

### Parameter:

**target**

The specified target.

Returns:

True if the privileges are cleared for the specified target.

### Examples:

The following code is an example of a SOAP request to create a user.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" 
xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
<soapenv:Header>
<sec:sessionId>B87CDEE24C7AE5EE4B1C00158EBC483D</sec:sessionId>
</soapenv:Header>
<soapenv:Body>
<sec:clearPrivileges>
<sec:target>pubuser</sec:target>
</sec:clearPrivileges>
</soapenv:Body>
</soapenv:Envelope>

```

The following code is the SOAP response to the request.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:clearPrivilegesResponse xmlns:ns2="http://www.approuter.com/
schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/
router/1000/security/03">
<return>true</return>
</ns2:clearPrivilegesResponse>
</S:Body>
</S:Envelope>

```

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00008.html>

## createRole

---

Creates a role.

Applies to Clouds and Integration Appliances.

### Parameters:

---

role

The specified roleName for the role that you want created.

displayName

The name to be displayed in the WMC.

email

The email address for the role.

Returns:

True if the role is created.

### Examples:

---

The following example is a SOAP request to create a role. The input for the request is the session ID.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
  <soapenv:Header>
    <sec:sessionId>85E3EB542F02449CE3FDC302A25E47F9</sec:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sec:createRole>
      <sec:role>jobmonitor</sec:role>
      <sec:displayName>jobmonitor</sec:displayName>
      <sec:email>monitor@mycompany.com</sec:email>
    </sec:createRole>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:createRoleResponse xmlns:ns2="http://www.approuter.com/
      schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/
      router/1000/security/03">
      <ns2:success>true</ns2:success>
    </ns2:createRoleResponse>
  </S:Body>
</S:Envelope>
```

## createUser

---

Creates a user name.

Applies to Clouds and Integration Appliances.

### Parameters:

---

username

The user ID to create.

password

The password for username.

displayName

The name to display in the WMC.

email

The email address for username.

Returns:

True if the username was successfully created.

### Examples:

---

The following code is an example of a SOAP request to create a user.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
  <soapenv:Header>
    <sec:sessionId>8F059BEEA3611033D277773A95404641</sec:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sec:createUser>
      <sec:username>webman</sec:username>
      <sec:password>Connect2WS</sec:password>
      <sec:displayName>WebServiceUser</sec:displayName>
      <sec:email>webman@mycompany.com</sec:email>
    </sec:createUser>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:createUserResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/router/1000/security/03">
      <ns2:success>true</ns2:success>
    </ns2:createUserResponse>
  </S:Body>
</S:Envelope>
```

---

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## currentScope

---

Returns the current scope for this thread.

Applies to Clouds only.

Returns:

The current scope.

### Examples:

---

The following example is a SOAP request for the current scope. The input for the request is the session ID.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
    xmlns:sec="http://www.approuter.com/schemas/2008/1/security">  
    <soapenv:Header>  
        <sec:sessionId>85F500F8283BBD9E4F31DCE3FD894442</sec:sessionId>  
    </soapenv:Header>  
    <soapenv:Body>  
        <sec:currentScope/>  
    </soapenv:Body>  
</soapenv:Envelope>
```

The following example is the SOAP reply to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">  
    <S:Body>  
        <ns2:currentScopeResponse xmlns:ns2="http://www.approuter.com/  
            schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/  
            router/1000/security/03">  
            <ns2:scope>  
                <active>true</active>  
                <category>enterprise</category>  
                <displayName>mycompany.com</displayName>  
                <id>B47EAECF6AD14AA028B4EA038CB742D0</id>  
                <index>0</index>  
                <name>mycompany.com</name>  
                <parentId>00000000000000000000000000000000</parentId>  
                <type>TENANT</type>  
            </ns2:scope>  
        </ns2:currentScopeResponse>  
    </S:Body>  
</S:Envelope>
```

---

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## deleteRole

---

Deletes a specified role.

Applies to Clouds and Integration Appliances.

### Parameter:

---

role

The specified roleName to delete.

Returns:

True if the role is deleted.

## Examples:

---

The following example is a SOAP request to delete a role.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
  <soapenv:Header>
    <sec:sessionId>B0097A43C5527FA552C3DBA7EF74CE9</sec:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sec:deleteRole>
      <sec:role>jobmonitor</sec:role>
    </sec:deleteRole>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:deleteRoleResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/router/1000/security/03">
      <ns2:success>true</ns2:success>
    </ns2:deleteRoleResponse>
  </S:Body>
</S:Envelope>
```

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00012.html>

## deleteUser

---

Deletes the user with the specified username.

Applies to Clouds and Integration Appliances.

### Parameter:

---

username

The user to delete from the tenant, environment, or project.

Returns:

True if the user was successfully deleted.

## Examples:

---

The following example is a SOAP request to delete a user.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
  <soapenv:Header>
    <sec:sessionId>BAB25F1A2A1ADCC0BB0D455D41354509</sec:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sec:deleteUser>
      <sec:username>webman</sec:username>
    </sec:deleteUser>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP reply to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:deleteUserResponse xmlns:ns2="http://www.approuter.com/
schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/
router/1000/security/03">
<ns2:success>true</ns2:success>
</ns2:deleteUserResponse>
</S:Body>
</S:Envelope>
```

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00013.html>

## disableUser

---

Disables a username. A disabled username cannot authenticate.

Applies to Clouds and Integration Appliances.

### Parameter:

---

username

The username to disable.

Returns:

True if the user was successfully disabled.

### Examples:

---

The following example is a SOAP request to disable a user.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
<soapenv:Header>
<sec:sessionId>BAB25F1A2A1ADCC0BB0D455D41354509</sec:sessionId>
</soapenv:Header>
<soapenv:Body>
<sec:disableUser>
<sec:username>webman</sec:username>
</sec:disableUser>
</soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP reply to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:disableUserResponse xmlns:ns2="http://www.approuter.com/
schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/
router/1000/security/03">
<ns2:success>true</ns2:success>
</ns2:disableUserResponse>
</S:Body>
</S:Envelope>
```

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## enableUser

---

Enables a user. An enabled user can authenticate.

Applies to Clouds and Integration Appliances.

### Parameter:

---

username  
The user to enable.

Returns:  
True if the user was successfully enabled.

### Examples:

---

The following example is a SOAP request to enable a user.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
  <soapenv:Header>
    <sec:sessionId>BAB25F1A2A1ADCC0BB0D455D41354509</sec:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sec:enableUser>
      <sec:username>webman</sec:username>
    </sec:enableUser>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:enableUserResponse xmlns:ns2="http://www.approuter.com/
    schemas/2008/1/security"
    xmlns:ns3="http://www.approuter.com/schema/
    router/1000/security/03">
      <ns2:success>true</ns2:success>
    </ns2:enableUserResponse>
  </S:Body>
</S:Envelope>
```

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## filterNewUsers

---

Filters new users.

Applies to Clouds and Integration Appliances.

## Parameters:

---

### filter

The filter to run against the list of users.

### sinceDate

The date to use to determine new users.

### Returns:

Returns the new users.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00016.html>

## filterUsers

---

Filters users.

Applies to Clouds and Integration Appliances.

## Parameter:

---

### filter

The filter to run against a list of users.

### Returns:

The users.

## Examples:

---

The following example is a SOAP request to filter users that begin with a w.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
  <soapenv:Header>
    <sec:sessionId>A5D2F0294EACB36B70622B8EE0E94706</sec:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sec:filterUsers>
      <sec:filter>w</sec:filter>
    </sec:filterUsers>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:filterUsersResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/router/1000/security/03">
      <ns2:users>webman</ns2:users>
    </ns2:filterUsersResponse>
  </S:Body>
</S:Envelope>
```

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00017.html>

## getGrantedRoles

---

Returns a list of all the roles explicitly granted to the specified user.

Applies to Clouds and Integration Appliances.

### Parameter:

---

username  
The specified user.

Returns:  
The list of roles granted to the specified user.

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00018.html>

## getImpliedRoles

---

Returns a list of all roles to which the specified user is a member. The list might contain roles that might not have been explicitly granted to the user, but are indirectly implied due to group memberships.

Applies to Clouds and Integration Appliances.

### Parameter:

---

username  
The specified user.

Returns:  
The role names.

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00019.html>

## getKerberosRealm

---

Gets the Kerberos realm.

Applies to Clouds and Integration Appliances.

Returns:

The Kerberos realm.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00020.html>

## getKerberosServer

---

Gets the name of the Kerberos server.

Applies to Clouds and Integration Appliances.

Returns:

The Kerberos server name.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00021.html>

## getRole

---

Gets the specified role.

Applies to Clouds and Integration Appliances.

### Parameter:

---

role

The specified role to return.

Returns:

The specified role

### Examples:

---

The following example is a SOAP request to get a role.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
    xmlns:sec="http://www.approuter.com/schemas/2008/1/security">  
    <soapenv:Header>  
        <sec:sessionId>BC77BA76E338CFA6B0063218A0AE4656</sec:sessionId>  
    </soapenv:Header>  
    <soapenv:Body>  
        <sec:getRole>  
            <sec:name>publisher@A347B0C49C8CFA462D4F28A4C05B47C2</sec:name>  
        </sec:getRole>  
    </soapenv:Body>  
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:getRoleResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/
security" xmlns:ns3="http://www.approuter.com/schema/router/1000/security/03">
<ns2:group>
<ns3:id>903273B869AC8CA9D99F4C8448694680</ns3:id>
<ns3:name>publisher@A347B0C49C8CFA462D4F28A4C05B47C2</ns3:name>
<ns3:displayName>Publisher Group</ns3:displayName>
<ns3:isActive>true</ns3:isActive>
<ns3:isMutable>false</ns3:isMutable>
<ns3:isVisible>true</ns3:isVisible>
<ns3:createdTime>2010-04-10T00:08:23Z</ns3:createdTime>
<ns3:scopeId>A347B0C49C8CFA462D4F28A4C05B47C2</ns3:scopeId>
<ns3:scopeType>Environment</ns3:scopeType>
<ns3:groupType>Publisher</ns3:groupType>
</ns2:group>
</ns2:getRoleResponse>
</S:Body>
</S:Envelope>
```

For each role the following information is returned:

**id**

The ID for the role.

**name**

The name of the role.

**displayName**

The name displayed in the WMC for the role.

**isActive**

True or false depending on whether the role is active.

**isMutable**

True or false. True means that the object can be updated.

**isVisible**

True or false. True means that the object is visible in the WMC.

**email**

The email address for the role.

**createdTime**

The date and time the role was created. The time is compliant with ISO 8601.

**scopeId**

The ID of the scope where the role is found. (Cloud only.)

**scopeType**

The type of scope, either tenant or environment. (Cloud only.)

**groupType**

The type of group to which the role belongs. If you create your own group, it is a custom group. For information about the built-in groups, see WMC Help > Permissions > About Built-in Groups.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00023.html>

## getRoleById

---

Gets the specified role.

Applies to Clouds and Integration Appliances.

### Parameter:

---

**id**

The specified ID for the role that you want returned.

Returns:

The role for the specified ID.

### Examples:

---

The following example is a SOAP request to get a role by the ID of the role.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
    xmlns:sec="http://www.approuter.com/  
    schemas/2008/1/security">  
    <soapenv:Header>  
        <sec:sessionId>A85C21BB99E816D48800C90B2C5547D4</sec:sessionId>  
    </soapenv:Header>  
    <soapenv:Body>  
        <sec:getRoleById>  
            <sec:id>8F52644BBA2491693D440F2FA12A4B3D</sec:id>  
        </sec:getRoleById>  
    </soapenv:Body>  
</soapenv:Envelope>
```

The following example is a SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">  
    <S:Body>  
        <ns2:getRoleByIdResponse xmlns:ns2="http://www.approuter.com/  
        schemas/2008/1/security"  
        xmlns:ns3="http://www.approuter.com/schema/  
        router/1000/security/03">  
            <ns2:group>  
                <ns3:id>8F52644BBA2491693D440F2FA12A4B3D</ns3:id>  
                <ns3:name>securitymonitor</ns3:name>  
                <ns3:displayName>monitor</ns3:displayName>  
                <ns3:isActive>true</ns3:isActive>  
                <ns3:isMutable>true</ns3:isMutable>  
                <ns3:isVisible>true</ns3:isVisible>  
                <ns3:email>security@mycompany.com</ns3:email>  
                <ns3:createdTime>2010-03-23T19:14:30.066Z</ns3:createdTime>  
                <ns3:scopeId>A6EFAF24DB7168A4206F605CA6E14B1D</ns3:scopeId>  
                <ns3:scopeType>Tenant</ns3:scopeType>  
                <ns3:groupType>Custom</ns3:groupType>  
            </ns2:group>  
        </ns2:getRoleByIdResponse>  
    </S:Body>  
</S:Envelope>
```

For each role the following information is returned:

**id**

The ID for the role.

**name**

The name of the role.

**displayName**

The name displayed in the WMC for the role.

**isActive**

True or false depending on whether the role is active.

**isMutable**

True or false. True means that the object can be updated.

**isVisible**

True or false. True means that the object is visible in the WMC.

**email**

The email address for the role.

**createdTime**

The date and time the role was created. The time is compliant with ISO 8601.

**scopeId**

The ID of the scope where the role is found. (Cloud only.)

**scopeType**

The type of scope, either tenant or environment. (Cloud only.)

**groupType**

The type of group to which the role belongs.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00024.html>

## **getRoleGroups**

---

Returns a list of all the groups to which the specified role is a member.

Applies to Clouds and Integration Appliances.

**Parameter:**

---

**role**

The specified role.

Returns:

The list of groups.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00025.html>

## **getRoles**

---

Gets a list of all roles.

Applies to Clouds and Integration Appliances.

Returns:

The roles.

## Examples:

---

The following example is a SOAP request to get roles.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
  <soapenv:Header>
    <sec:sessionId>84076B5B810064272043B5106EEE46C3</sec:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sec:getRoles/>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:getRolesResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/security"
      xmlns:ns3="http://www.approuter.com/schema/router/1000/security/03">
      <ns2:roles>
        <ns3:id>9A8B9ED954A3781D47C6BA88E6B048BA</ns3:id>
        <ns3:name>user@B74A0FF293331AB2A7E4F21E15D143F3</ns3:name>
        <ns3:displayName>User Group</ns3:displayName>
        <ns3:isActive>true</ns3:isActive>
        <ns3:isMutable>false</ns3:isMutable>
        <ns3:isVisible>true</ns3:isVisible>
        <ns3:createdTime>2010-04-02T22:44:31Z</ns3:createdTime>
        <ns3:scopeId>B74A0FF293331AB2A7E4F21E15D143F3</ns3:scopeId>
        <ns3:scopeType>Environment</ns3:scopeType>
        <ns3:groupType>User</ns3:groupType>
      </ns2:roles>
      <ns2:roles>
        <ns3:id>A15F37B1499136A2151868DE1E47400F</ns3:id>
        <ns3:name>publisher@B74A0FF293331AB2A7E4F21E15D143F3</ns3:name>
        <ns3:displayName>Publisher Group</ns3:displayName>
        <ns3:isActive>true</ns3:isActive>
        <ns3:isMutable>false</ns3:isMutable>
        <ns3:isVisible>true</ns3:isVisible>
        <ns3:createdTime>2010-04-02T22:44:31Z</ns3:createdTime>
        <ns3:scopeId>B74A0FF293331AB2A7E4F21E15D143F3</ns3:scopeId>
        <ns3:scopeType>Environment</ns3:scopeType>
        <ns3:groupType>Publisher</ns3:groupType>
      </ns2:roles>
      <ns2:roles>
        <ns3:id>B3BED651CA6AC0259BE3B5CBB14D4BF8</ns3:id>
        <ns3:name>admin@B74A0FF293331AB2A7E4F21E15D143F3</ns3:name>
        <ns3:displayName>Administrator Group</ns3:displayName>
        <ns3:isActive>true</ns3:isActive>
        <ns3:isMutable>false</ns3:isMutable>
        <ns3:isVisible>true</ns3:isVisible>
        <ns3:createdTime>2010-04-02T22:44:31Z</ns3:createdTime>
        <ns3:scopeId>B74A0FF293331AB2A7E4F21E15D143F3</ns3:scopeId>
        <ns3:scopeType>Environment</ns3:scopeType>
        <ns3:groupType>Admin</ns3:groupType>
      </ns2:roles>
      <ns2:roles>
        <ns3:id>B7DD994177067F9B6238B08AE6114F2A</ns3:id>
        <ns3:name>monitor</ns3:name>
        <ns3:displayName>Job Monitor</ns3:displayName>
        <ns3:isActive>true</ns3:isActive>
        <ns3:isMutable>true</ns3:isMutable>
        <ns3:isVisible>true</ns3:isVisible>
        <ns3:email>monitor@mycompany.com</ns3:email>
        <ns3:createdTime>2010-04-08T16:57:20.765Z</ns3:createdTime>
        <ns3:scopeId>B74A0FF293331AB2A7E4F21E15D143F3</ns3:scopeId>
        <ns3:scopeType>Environment</ns3:scopeType>
        <ns3:groupType>Custom</ns3:groupType>
      </ns2:roles>
    </ns2:getRolesResponse>
  </S:Body>
</S:Envelope>
```

For each role the following is returned:

**id**

The ID for the role.

**name**

The name of the role.

**displayName**

The name displayed in the WMC for the role.

**isActive**

True or false depending on whether the role is active.

**isMutable**

True or false. True means that the object can be updated.

**isVisible**

True or false. True means that the object is visible in the WMC.

**email**

The email address for the role.

**createdTime**

The date and time the role was created. The time is compliant with ISO 8601.

**scopeId**

The ID of the scope where the role is found. (Cloud only.)

**scopeType**

The type of scope, either tenant or environment. (Cloud only.)

**groupType**

The type of group to which the role belongs.

---

#### [Feedback](#) | [Notices](#)

 Last updated: Thursday, 2 June 2016

file:///dcs/markdown/workspace/Transform/out.html

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00026.html>

## getRolesInRoleGroup

---

Returns a list of all the roles in the specified role group.

Applies to Clouds and Integration Appliances.

### Parameter:

---

**name**

The specified role group.

Returns:

The list of roles for the specified role group.

---

#### [Feedback](#) | [Notices](#)

 Last updated: Thursday, 2 June 2016

## getRoleUsers

---

Returns a list of all the users that are members of the specified role.

Applies to Clouds and Integration Appliances.

### Parameter:

---

name

The specified role.

Returns:

The list of users for the specified role.

---

### [Feedback](#) | [Notices](#)

 Last updated: Thursday, 2 June 2016

file:///dcs/markdown/workspace/Transform/out.html

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00028.html>

## getScope

---

Gets the specified scope in the specified parent scope.

Applies to Clouds only.

### Parameters:

---

scopeType

The type of scope, which is either tenant or environment.

name

The name of the scope.

parentScopeId

The ID of the parent scope.

Returns:

The specified scope.

### Examples:

---

The following example is a SOAP request to get the specified scope in the specified parent scope.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
    xmlns:sec="http://www.approuter.com/schemas/2008/1/security">  
    <soapenv:Header>  
        <sec:sessionId>AA91E56114D36B296D82660639B6482F</sec:sessionId>  
    </soapenv:Header>  
    <soapenv:Body>  
        <sec:getScope>  
            <sec:scopeType>ENV</sec:scopeType>  
            <sec:name>Staging</sec:name>  
            <sec:parentScopeId>88673D5DF2583806B037576D94F34BBA</sec:parentScopeId>  
        </sec:getScope>  
    </soapenv:Body>  
</soapenv:Envelope>
```

```
</soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:getScopeResponse xmlns:ns2="http://www.approuter.com/
schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/
router/1000/security/03">
<ns2:scope>
<active>true</active>
<displayName>Staging</displayName>
<id>A51EDD44BE6C10B2D1335A9D634D407D</id>
<index>1</index>
<name>Staging</name>
<parentId>88673D5DF2583806B037576D94F34BBA</parentId>
<type>ENV</type>
</ns2:scope>
</ns2:getScopeResponse>
</S:Body>
</S:Envelope>
```

---

#### [Feedback | Notices](#)

 Last updated: Thursday, 2 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00029.html>

## getScopeById

---

Gets the scope as specified by the ID.

Applies to Clouds only.

### Parameter:

---

scopeID

The ID for the scope.

Returns:

The scope as specified by the ID.

### Examples:

---

The following code is an example of a SOAP request to get a scope by its ID.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
<soapenv:Header>
<sec:sessionId>B60EA6425F8FCB16BB6E96063D09408E</sec:sessionId>
</soapenv:Header>
<soapenv:Body>
<sec:getScopeById>
<sec:scopeId>9378E8C3C5E5DCACA77D9F7B6BE24B98</sec:scopeId>
</sec:getScopeById>
</soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:getScopeByIdResponse xmlns:ns2="http://www.approuter.com/
schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/
```

```

router/1000/security/03">
<ns2:scope>
<active>true</active>
<category>enterprise</category>
<displayName>mycompany.com</displayName>
<id>9378E8C3C5E5DCACA77D9F7B6BE24B98</id>
<index>0</index>
<name>castiron.com</name>
<parentId>00000000000000000000000000000000</parentId>
<type>TENANT</type>
</ns2:scope>
</ns2:getScopeByIdResponse>
</S:Body>
</S:Envelope>

```

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 file:///dcs/markdown/workspace/Transform/out.html

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00030.html>

## [getScopesByParentId](#)

Using the ID of the parent scope, returns a list of all the child scopes.

Applies to Clouds only.

### **Parameter:**

parentScopeId

The ID for the parent scope.

Returns:

A list of child scopes.

### **Examples:**

The following example is a SOAP request to get scopes by using the ID of the parent scope.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
<ns2:parentScopeId>BB173AE61484BD7359D8910789EA4E88</ns2:parentScopeId>
<ns2:scopes>
<ns2:scope>
<active>true</active>
<category>environment</category>
<displayName>Staging</displayName>
<id>9378E8C3C5E5DCACA77D9F7B6BE24B98</id>
<index>0</index>
<name>castiron.com</name>
<parentId>00000000000000000000000000000000</parentId>
<type>TENANT</type>
</ns2:scope>
</ns2:scopes>

```

The following example is the SOAP response to the request. The parent scope is a tenant and the child scopes are the environments in the tenant.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:getScopesByParentIdResponse xmlns:ns2="http://www.approuter.com/
schemas/2008/1/security">
<ns2:scopes>
<ns2:scope>
<active>true</active>
<category>environment</category>
<displayName>Staging</displayName>
<id>9378E8C3C5E5DCACA77D9F7B6BE24B98</id>
<index>0</index>
<name>castiron.com</name>
<parentId>00000000000000000000000000000000</parentId>
<type>TENANT</type>
</ns2:scope>
</ns2:scopes>

```

```

<id>9203C78275503796DB49CB5E6CF34111</id>
<index>1</index>
<name>Staging</name>
<parentId>BB173AE61484BD7359D8910789EA4E88</parentId>
<type>ENV</type>
</ns2:scopes>
<ns2:scopes>
<active>true</active>
<displayName>Development</displayName>
<id>A26D2319BAE05E9513117949CF274A09</id>
<index>0</index>
<name>Development</name>
<parentId>BB173AE61484BD7359D8910789EA4E88</parentId>
<type>ENV</type>
</ns2:scopes>
<ns2:scopes>
<active>true</active>
<displayName>Production</displayName>
<id>B56005332F3E41A3F1456F5F40594A06</id>
<index>2</index>
<name>Production</name>
<parentId>BB173AE61484BD7359D8910789EA4E88</parentId>
<type>ENV</type>
</ns2:scopes>
</ns2:getScopesByParentIdResponse>
</S:Body>
</S:Envelope>

```

For each child scope, the following information is returned:

#### active

True or false. True means that the scope is active.

#### displayName

The name displayed in the WMC for the role.

#### id

The ID for the child scope.

#### index

The position in the index of the child scope.

#### name

The name of the child scope.

#### parentId

The ID of the parent scope.

#### type

The type of scope.

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00031.html>

## getUser

Gets the user for specified username.

Applies to Clouds and Integration Appliances.

### Parameter:

**username**  
The specified username.

**Returns:**  
The user corresponding to the specified username.

## Examples:

---

The following example is a SOAP request to get a user by using the specified username.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
  <soapenv:Header>
    <sec:sessionId>BF1E7729085BB066446DF913FAE34596</sec:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sec:getUser>
      <sec:username>webman</sec:username>
    </sec:getUser>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:getUserResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/router/1000/security/03">
      <ns2:user>
        <ns3:id>965AAB3FED8D3CCBEBE4DC8EE0E2944EA</ns3:id>
        <ns3:name>webman</ns3:name>
        <ns3:encPasswd>{SHA}c1020r2ZJMJcDrNwXQzhWB8YcdI=</ns3:encPasswd>
        <ns3:displayName>WebServiceUser</ns3:displayName>
        <ns3:isActive>true</ns3:isActive>
        <ns3:isMutable>true</ns3:isMutable>
        <ns3:isVisible>true</ns3:isVisible>
        <ns3:email>webman@mycompany.com</ns3:email>
        <ns3:createdTime>2010-03-02T22:11:32.935Z</ns3:createdTime>
        <ns3:failedLoginCount>0</ns3:failedLoginCount>
        <ns3:scopeId>B47EAECF6AD14AA028B4EA038CB742D0</ns3:scopeId>
        <ns3:scopeType>Tenant</ns3:scopeType>
      </ns2:user>
    </ns2:getUserResponse>
  </S:Body>
</S:Envelope>
```

For each user the following information is returned:

**id**  
The ID for the user.

**name**  
The name for the user.

**encPasswd**  
The SHA encoded password for the user.

**displayName**  
The name displayed in the WMC for the role.

**isActive**  
True if the user is logged in, false if not.

**isMutable**  
True or false. True means that the object can be updated, false if not.

**isVisible**  
True or false. True means that the object is visible in the WMC, false if not.

**email**  
The email address for the user.

#### createdTime

The date and time the user was created.

#### failedLoginCount

The number of failed attempts to log in by using this name. After five failures, the username is blocked for 15 seconds. For each successive failure, the blocked time is doubled (15 - 30 - 60 - 120).

#### scopeId

The scope ID for the scope where the user is located. Does not apply for Integration Appliances.

#### scopeType

The type of scope, either tenant or environment. Does not apply for Integration Appliances.

---

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file:///dcs/markdown/workspace/Transform/out.html

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00032.html>

## getUserById

---

Gets the user by the specified ID.

Applies to Clouds and Integration Appliances.

### Parameter:

---

#### id

The specified ID for the user.

Returns:

The user with the specified ID.

### Examples:

---

The following example is a SOAP request to get a user by the specified ID.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
  <soapenv:Header>
    <sec:sessionId>BAB25F1A2A1ADCC0BB0D455D41354509</sec:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sec:getUserById>
      <sec:id>9707B975E42F2B6135D6FB0FA36C4E53</sec:id>
    </sec:getUserById>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP reply to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:getUserByIdResponse xmlns:ns2="http://www.approuter.com/
      schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/
      router/1000/security/03">
      <ns2:user>
        <ns3:id>9707B975E42F2B6135D6FB0FA36C4E53</ns3:id>
        <ns3:name>webman</ns3:name>
        <ns3:encPasswd>{SHA}gf/yUAZHwaZFHdCMaxDHVmmd4FE=</ns3:encPasswd>
        <ns3:displayName>Webuser</ns3:displayName>
        <ns3:isActive>true</ns3:isActive>
        <ns3:isMutable>true</ns3:isMutable>
        <ns3:isVisible>true</ns3:isVisible>
      </ns2:user>
    </ns2:getUserByIdResponse>
  </S:Body>
</S:Envelope>
```

```

<ns3:email>webman@castiron.com</ns3:email>
<ns3:createdTime>2010-03-11T19:03:46.737Z</ns3:createdTime>
<ns3:failedLoginCount>0</ns3:failedLoginCount>
<ns3:scopeId>B47EAECF6AD14AA028B4EA038CB742D0</ns3:scopeId>
<ns3:scopeType>Tenant</ns3:scopeType>
</ns2:user>
</ns2:getUserByIdResponse>
</S:Body>
</S:Envelope>

```

For each user the following information is returned:

**id**

The ID for the user.

**name**

The name for the user.

**encPasswd**

The SHA encoded password for the user.

**displayName**

The name displayed in the WMC for the user.

**isActive**

True or false depending on whether the user is logged in.

**isMutable**

True or false. True means that the object can be updated. False means that the object cannot be updated.

**isVisible**

True or false. True means that the object is visible in the WMC.

**email**

The email address for the user.

**createdTime**

The date and time the user was created.

**failedLoginCount**

The number of failed attempts to log in by using this name. After five failures, the username is blocked for 15 seconds. For each successive failure, the blocked time is doubled (15 - 30 - 60 - 120).

**scopeId**

The scope ID for the scope where the user is located. Applies to Cloud only.

**scopeType**

The type of scope, either tenant or environment. Applies to Cloud only.

## Feedback | Notices

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00033.html>

## getUsers

Gets a list of all the users based on the session ID.

Applies to Clouds and Integration Appliances.

Returns:

The users

## Examples:

---

The following example is a SOAP request to get users. The input for the request is the session ID.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
  <soapenv:Header>
    <sec:sessionId>8EB8F17160F7D1E561EC45EFEBF344CF</sec:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sec:getUsers/>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP reply to the request to get users:

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:getUsersResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/router/1000/security/03">
      <ns2:users>
        <ns3:id>860DDF6E8DE511EF0EA8E249A1514EA1</ns3:id>
        <ns3:name>foo@mycompany.com</ns3:name>
        <ns3:encPasswd>{SHA}L84w50sj87W4IQUhr2NqKsu08kI=</ns3:encPasswd>
        <ns3:displayName>Foo</ns3:displayName>
        <ns3:isActive>true</ns3:isActive>
        <ns3:isMutable>true</ns3:isMutable>
        <ns3:isVisible>true</ns3:isVisible>
        <ns3:email>foo@mycompany.com</ns3:email>
        <ns3:createdTime>2010-02-24T23:12:10.252Z</ns3:createdTime>
        <ns3:failedLoginCount>0</ns3:failedLoginCount>
        <ns3:scopeId>B47EAECF6AD14AA028B4EA038CB742D0</ns3:scopeId>
        <ns3:scopeType>Tenant</ns3:scopeType>
      </ns2:users>
      <ns2:users>
        <ns3:id>90D63CC6F3A5F90C587B2B478858432D</ns3:id>
        <ns3:name>admin@mycompany.com</ns3:name>
        <ns3:encPasswd>{SHA}8eQYsQgWL3V0sLf7akuJ05wM11c=</ns3:encPasswd>
        <ns3:displayName>admin@mycompany.com</ns3:displayName>
        <ns3:isActive>true</ns3:isActive>
        <ns3:isMutable>false</ns3:isMutable>
        <ns3:isVisible>true</ns3:isVisible>
        <ns3:email>admin@mycompany.com</ns3:email>
        <ns3:createdTime>2010-02-12T21:50:35Z</ns3:createdTime>
        <ns3:lastLoginTime>2010-03-10T17:20:39.774Z</ns3:lastLoginTime>
        <ns3:lastFailedLoginTime>2010-03-03T18:25:24.936Z</ns3:lastFailedLoginTime>
        <ns3:failedLoginCount>0</ns3:failedLoginCount>
        <ns3:scopeId>B47EAECF6AD14AA028B4EA038CB742D0</ns3:scopeId>
        <ns3:scopeType>Tenant</ns3:scopeType>
      </ns2:users>
      <ns2:users>
        <ns3:id>965AAB3FED8D3CCBBE4DC8EE0E2944EA</ns3:id>
        <ns3:name>webman</ns3:name>
        <ns3:encPasswd>{SHA}c1O20r2ZJMJCDrNwXQzhWB8YcdI=</ns3:encPasswd>
        <ns3:displayName>WebServiceUser</ns3:displayName>
        <ns3:isActive>true</ns3:isActive>
        <ns3:isMutable>true</ns3:isMutable>
        <ns3:isVisible>true</ns3:isVisible>
        <ns3:email>webman@mycompany.com</ns3:email>
        <ns3:createdTime>2010-03-02T22:11:32.935Z</ns3:createdTime>
        <ns3:failedLoginCount>0</ns3:failedLoginCount>
        <ns3:scopeId>B47EAECF6AD14AA028B4EA038CB742D0</ns3:scopeId>
        <ns3:scopeType>Tenant</ns3:scopeType>
      </ns2:users>
      <ns2:users>
        <ns3:id>B77F69E6D9488E2607B02076B4F848DC</ns3:id>
        <ns3:name>support@mycompany.com</ns3:name>
        <ns3:encPasswd>{SHA}Ek2MpQlE1+fGMEYo1kSF6lpbNIk=</ns3:encPasswd>
        <ns3:displayName>support@mycompany.com</ns3:displayName>
        <ns3:isActive>false</ns3:isActive>
        <ns3:isMutable>false</ns3:isMutable>
        <ns3:isVisible>true</ns3:isVisible>
        <ns3:email>support@mycompany.com</ns3:email>
      </ns2:users>
    </ns2:getUsersResponse>
  </S:Body>
</S:Envelope>
```

```

<ns3:createdTime>2010-02-12T21:50:35Z</ns3:createdTime>
<ns3:failedLoginCount>0</ns3:failedLoginCount>
<ns3:scopeId>B47EAECF6AD14AA028B4EA038CB742D0</ns3:scopeId>
<ns3:scopeType>Tenant</ns3:scopeType>
</ns2:users>
</ns2:getUsersResponse>
</S:Body>
</S:Envelope>

```

For each user the following information is returned:

**id**

The ID for the user.

**name**

The name for the user.

**encPasswd**

The SHA encoded password for the user.

**displayName**

The name displayed in the WMC for the user.

**isActive**

True or false depending on whether the user is logged in.

**isMutable**

True or false. True means that the object can be updated, false if not.

**isVisible**

True or false. True means that the object is visible in the WMC, false if not.

**email**

The email address for the user.

**createdTime**

The date and time the user was created.

**failedLoginCount**

The number of failed attempts to log in to the tenant by using this name. After five failures, the username is blocked for 15 seconds. For each successive failure, the blocked time is doubled.

**scopeId**

The scope ID for the scope where the user is located. Applies to Clouds only.

**scopeType**

The type of scope, either tenant or environment. Applies to Clouds only.

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00034.html>

## grantPrivilege

Grants the specified privilege.

Applies to Clouds and Integration Appliances.

### Parameter:

privilege

The specified privilege being granted.

Returns:

True if the privilege is granted.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00035.html>

## grantPrivileges

---

Grants the specified privileges.

Applies to Clouds and Integration Appliances.

### Parameter:

---

privileges

The specified privileges being granted.

Returns:

True if the privileges are granted.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00036.html>

## grantRole

---

Grants a specified role to a specified user.

Applies to Clouds and Integration Appliances.

### Parameters:

---

userName

The specified userName to whom the specified roleName is to be granted.

role

The specified roleName to be granted to the specified userName.

Returns:

True if the role is granted to the user.

The following example is a SOAP request to grant a role.

Request:  
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">  
<soapenv:Header>  
<sec:sessionId>AEBD5F4E5F311F0B60F6C12642F0418F</sec:sessionId>

```

</soapenv:Header>
<soapenv:Body>
<sec:grantRole>
<sec:username>test</sec:username>
<sec:role>user</sec:role>
</sec:grantRole>
</soapenv:Body>
</soapenv:Envelope>

Response:
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns3:grantRoleResponse xmlns:ns3="http://www.approuter.com/schemas/2008/1/security"
xmlns:ns2="http://www.approuter.com/schema/router/1000/security/03">
<ns3:success>true</ns3:success>
</ns3:grantRoleResponse>
</S:Body>
</S:Envelope>

```

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## hasPrivilege

Returns true if a privilege exists for the specified user, target, and action.

Applies to Clouds and Integration Appliances.

### Parameters:

**username**  
The specified user.

**target**  
The specified target.

**action**  
The specified action.

**Returns:**  
True if the privilege exists.

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00038.html>

## isRealmUser

Returns true if the specified user belongs to the realm that corresponds to the session ID.

Applies to Clouds and Integration Appliances.

## Parameter:

---

username  
The specified user.

Returns:  
True if the user belongs to the realm.

## Examples:

---

The following example is a SOAP request to check if the specified user belongs to the realm.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
xmlns:sec="http://www.approuter.com/schemas/2008/1/security">  
  <soapenv:Header>  
    <sec:sessionId>A85C21BB99E816D48800C90B2C5547D4</sec:sessionId>  
  </soapenv:Header>  
  <soapenv:Body>  
    <sec:isRealmUser>  
      <sec:username>admin@mycompany.com</sec:username>  
    </sec:isRealmUser>  
  </soapenv:Body>  
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">  
  <S:Body>  
    <ns2:isRealmUserResponse xmlns:ns2="http://www.approuter.com/  
    schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/  
    router/1000/security/03">  
      <ns2:isRealmUser>true</ns2:isRealmUser>  
    </ns2:isRealmUserResponse>  
  </S:Body>  
</S:Envelope>
```

---

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## isEnabled

---

Checks to see if the specified username is enabled. An enabled user is authenticated.

Applies to Clouds and Integration Appliances.

## Parameter:

---

username  
The username to be checked.

Returns:  
True if the specified username is enabled.

## Examples:

---

The following example is a SOAP request to check if the specified user is enabled.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
xmlns:sec="http://www.approuter.com/schemas/2008/1/security">  
  <soapenv:Header>
```

```

<sec:sessionId>A85C21BB99E816D48800C90B2C5547D4</sec:sessionId>
</soapenv:Header>
<soapenv:Body>
<sec:isEnabled>
<sec:username>webman</sec:username>
</sec:isEnabled>
</soapenv:Body>
</soapenv:Envelope>

```

The following example is the SOAP response to the request.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:isEnabledResponse xmlns:ns2="http://www.approuter.com/
schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/
router/1000/security/03">
<ns2:isEnabled>true</ns2:isEnabled>
</ns2:isEnabledResponse>
</S:Body>
</S:Envelope>

```

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## listAvailableActions

List the available actions for a specified target.

Applies to Clouds and Integration Appliances.

#### Parameter:

**target**  
The specified target.

Returns:  
The list of actions for the specified target.

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## listGrantableRoles

Returns a list of roles that can be granted (excludes conditional roles).

Applies to Clouds and Integration Appliances.

Returns:  
The list of roles.

#### Examples:

The following example is a SOAP request to list the grantable roles.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
  <soapenv:Header>
    <sec:sessionId>AA91E56114D36B296D82660639B6482F</sec:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sec:listGrantableRoles/>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:listGrantableRolesResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/router/1000/security/03">
      <ns2:roles>admin@A51EDD44BE6C10B2D1335A9D634D407D</ns2:roles>
      <ns2:roles>user@A51EDD44BE6C10B2D1335A9D634D407D</ns2:roles>
      <ns2:roles>publisher@A51EDD44BE6C10B2D1335A9D634D407D</ns2:roles>
    </ns2:listGrantableRolesResponse>
  </S:Body>
</S:Envelope>
```

---

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## listPrivileges

---

Returns a list of privileges for the specified targets and action.

Applies to Clouds and Integration Appliances.

### Parameters:

---

targets

The specified targets.

action

The specified action.

Returns:

The list of privileges.

---

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## listRoles

---

Gets a list of all the role names.

Applies to Clouds and Integration Appliances.

Returns:

The role names.

## Examples:

---

The following example is a SOAP request to get the role names.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
  <soapenv:Header>
    <sec:sessionId>84076B5B810064272043B5106EEE46C3</sec:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sec:listRoles/>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:listRolesResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/router/1000/security/03">
      <ns2:roles>user@B74A0FF293331AB2A7E4F21E15D143F3</ns2:roles>
      <ns2:roles>publisher@B74A0FF293331AB2A7E4F21E15D143F3</ns2:roles>
      <ns2:roles>admin@B74A0FF293331AB2A7E4F21E15D143F3</ns2:roles>
    </ns2:listRolesResponse>
  </S:Body>
</S:Envelope>
```

---

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## listUsers

---

Returns a list of all users.

Applies to Clouds and Integration Appliances.

Returns:

A list of all users.

## Examples:

---

The following example is a SOAP request for the list of users.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
  <soapenv:Header>
    <sec:sessionId>8F059BEEA3611033D277773A95404641</sec:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sec:listUsers/>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP reply to the request for the list of users:

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:listUsersResponse xmlns:ns2="http://www.approuter.com/
schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/
router/1000/security/03">
<ns2:users>foo@mycompany.com</ns2:users>
<ns2:users>httpclient@mycompany.com</ns2:users>
<ns2:users>admin@mycompany.com</ns2:users>
<ns2:users>webman@mycompany.com</ns2:users>
<ns2:users>support@mycompany.com</ns2:users>
</ns2:listUsersResponse>
</S:Body>
</S:Envelope>

```

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00045.html>

## login

Logs in to an Integration Appliance or a Cloud.

### Parameters:

#### username

The user ID that you use to log in to an Integration Appliance or Cloud.

#### password

The password for username.

#### Returns:

The session ID.

### Examples:

The following code is an example of a SOAP request that you can use to log in to the web service:

Note: To login to the Cast Iron Live web service, use the IBM ID Credentials for the username and password fields in the SOAP request.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" 
xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
<soapenv:Header/>
<soapenv:Body>
<sec:login>
<sec:username>webman@mycompany.com</sec:username>
<sec:password>My6word3S</sec:password>
</sec:login>
</soapenv:Body>
</soapenv:Envelope>

```

The password must be at least eight characters long and contain a combination of three of the following characters:

- Alphabet characters
- Uppercase alphabet characters
- Numbers
- Special characters

The following code is an example of a SOAP response to a successful login request:

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:loginResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/

```

```
security" xmlns:ns3="http://www.approuter.com/schema/router/1000/security/03">
<ns2:sessionId>8F059BWEA3611033D277773A95404641</ns2:sessionId>
</ns2:loginResponse>
</S:Body>
</S:Envelope>
```

The session ID is required to run the other operations in the Management API after logging in.

---

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## logout

---

Logs out of an Integration Appliance or Cloud.

Returns:  
Logs out of the Integration Appliance or Cloud

### Examples:

---

The following example is a SOAP request to log out.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
<ns1:sec="http://www.approuter.com/schemas/2008/1/security">
<soapenv:Header>
<sec:sessionId>BB93F99B80AC742BEE3BC81262C2486F</sec:sessionId>
</soapenv:Header>
<soapenv:Body>
<sec:logout/>
</soapenv:Body>
</soapenv:Envelope>
```

The following example is a SOAP reply to a logout request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:logoutResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/
security" xmlns:ns3="http://www.approuter.com/schema/router/1000/security/03">
<return>true</return>
</ns2:logoutResponse>
</S:Body>
</S:Envelope>
```

---

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## removeKerberosConfiguration

---

Removes the Kerberos configuration.

Applies to Clouds and Integration Appliances.

---

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## **removeRoleFromRoleGroup**

---

Removes the specified role as a member of the specified group.

Applies to Clouds and Integration Appliances.

### **Parameters:**

---

**role**

The name of the role.

**group**

The name of the group from which the role is to be removed.

Returns:

True if the role is successfully removed from the group.

---

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## **revokePrivilege**

---

Revokes the specified privilege.

Applies to Clouds and Integration Appliances.

### **Parameter:**

---

**privilege**

The specified privilege being revoked.

Returns:

True if the privilege is revoked.

---

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## revokeRole

---

Revokes a specified role from a specified user.

Applies to Clouds and Integration Appliances.

### Parameters:

---

userName

The specified userName to whom the specified roleName is to be revoked.

role

The specified roleName to be revoked from the specified userName.

Returns:

True if the role is revoked from the user.

---

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## roleExists

---

Checks if the specified role exists. Returns true if the role exists.

Applies to Clouds and Integration Appliances.

### Parameter:

---

role

The specified role to be checked to see if it exists.

Returns:

True if the specified role exists.

### Examples:

---

The following example is a SOAP request to check if a role exists.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
    xmlns:sec="http://www.approuter.com/schemas/2008/1/security">  
    <soapenv:Header>  
        <sec:sessionId>A85C21BB99E816D48800C90B2C5547D4</sec:sessionId>  
    </soapenv:Header>  
    <soapenv:Body>  
        <sec:roleExists>  
            <sec:name>securitymonitor</sec:name>  
        </sec:roleExists>  
    </soapenv:Body>  
</soapenv:Envelope>
```

The following example is a SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">  
    <S:Body>  
        <ns2:roleExistsResponse xmlns:ns2="http://www.approuter.com/  
            schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/  
            router/1000/security/03">  
            <ns2:roleExists>true</ns2:roleExists>  
        </ns2:roleExistsResponse>
```

```
</S:Body>
</S:Envelope>
```

---

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## setCurrentScope

---

Sets the current scope for this thread.

Applies to Clouds only.

Returns:

True if the current scope was set.

### Examples:

---

The following example is a SOAP request to set the current scope.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <ns1:sec xmlns:ns1="http://www.approuter.com/schemas/2008/1/security">
    <soapenv:Header>
      <sec:sessionId>84B7E4D6D856EB5812EB71896C3547CC</sec:sessionId>
    </soapenv:Header>
    <soapenv:Body>
      <sec:setCurrentScope>
        <sec:scopeName>Development</sec:scopeName>
      </sec:setCurrentScope>
    </soapenv:Body>
  </ns1:sec>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:setCurrentScopeResponse xmlns:ns2="http://www.approuter.com/
      schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/
      router/1000/security/03">
      <ns2:success>true</ns2:success>
    </ns2:setCurrentScopeResponse>
  </S:Body>
</S:Envelope>
```

---

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## setCurrentScopeById

---

Sets the current scope for this thread.

Applies to Clouds only.

Returns:

True if the current scope was set.

## Examples:

---

The following example is a SOAP request to set the current scope by the ID of the tenant or environment.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
  <soapenv:Header>
    <sec:sessionId>84B7E4D6D856EB5812EB71896C3547CC</sec:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sec:setCurrentScopeById>
      <sec:scopeId>8DA9ED360FCB9B3F6E867705490D4B9F</sec:scopeId>
    </sec:setCurrentScopeById>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:setCurrentScopeByIdResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/router/1000/security/03">
      <ns2:success>true</ns2:success>
    </ns2:setCurrentScopeByIdResponse>
  </S:Body>
</S:Envelope>
```

---

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## setKerberosConfiguration

---

Sets the Kerberos configuration.

You can use the Kerberos protocol to provide security on an unsecured network for communication between your server and Clouds or Integration Appliances.

Applies to Clouds and Integration Appliances.

### Parameters:

---

serverName

The name of the Kerberos server.

realm

The realm for the Kerberos server.

---

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## **setLdapConfiguration**

---

Sets an LDAP configuration.

Applies to Clouds and Integration Appliances.

### **Parameter:**

---

ldapConfig

The LDAP configuration.

---

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## **updateRole**

---

Updates the specified role.

Applies to Clouds and Integration Appliances.

### **Parameters:**

---

role

The specified roleName to be updated.

displayName

The name to be displayed in the WMC.

email

The email address for roleName.

Returns:

True if the role is updated.

---

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## **updateUser**

---

Updates a user.

Applies to Clouds and Integration Appliances.

### **Parameters:**

---

**username**

The user name for the tenant associated with the session ID.

**displayName**

The name to display in the WMC.

**email**

The email address for the username.

**Returns:**

True if the user was successfully updated.

## Examples:

---

The following example is a SOAP request to update a user. The input for the request is the session ID and the username. The email address is being updated in this example.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sec="http://www.approuter.com/schemas/2008/1/security">
  <soapenv:Header>
    <sec:sessionId>A85C21BB99E816D48800C90B2C5547D4</sec:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sec:updateUser>
      <sec:username>webman</sec:username>
      <sec:displayName>?</sec:displayName>
      <sec:email>webman@mycompany.com</sec:email>
    </sec:updateUser>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:updateUserResponse xmlns:ns2="http://www.approuter.com/
      schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/
      router/1000/security/03">
      <ns2:success>true</ns2:success>
    </ns2:updateUserResponse>
  </S:Body>
</S:Envelope>
```

The email address was successfully updated.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00058.html>

## userExists

---

Checks if the specified username exists.

Applies to Clouds and Integration Appliances.

### Parameter:

---

**username**

The username for which the check is made.

**Returns:**

True if the username exists.

## Examples:

---

The following example is a SOAP request to check if a user exists. The input for the request is the session ID and the username.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
xmlns:sec="http://www.approuter.com/schemas/2008/1/security">  
  <soapenv:Header>  
    <sec:sessionId>99E1848F7661D4FC066AD5F97AB44C0C</sec:sessionId>  
  </soapenv:Header>  
  <soapenv:Body>  
    <sec:userExists>  
      <sec:username>webman</sec:username>  
    </sec:userExists>  
  </soapenv:Body>  
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">  
  <S:Body>  
    <ns2:userExistsResponse xmlns:ns2="http://www.approuter.com/  
    schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/  
    router/1000/security/03">  
      <ns2:userExists>true</ns2:userExists>  
    </ns2:userExistsResponse>  
  </S:Body>  
</S:Envelope>
```

---

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## Deployment

---

Information about the deployment WSDL.

The deployment WSDL provides operations to create, get, and delete configurations, rules, and projects. You can start, pause, stop, and cancel jobs. You can also import or export repositories.

This section contains the following topics:

- [cancelJob](#)
- [cloneConfiguration](#)
- [createAssets](#)
- [createConfiguration](#)
- [createRepeatingRule](#)
- [createRule](#)
- [createUserConfiguration](#)
- [deleteConfiguration](#)
- [deleteProject](#)
- [deleteRule](#)
- [deleteUserConfiguration](#)
- [downloadProject](#)
- [exportRepository](#)
- [getAllProjects](#)
- [getAssetGroupDisplayString](#)
- [getAssetGroupScript](#)
- [getAssetGroupWarnings](#)
- [getAssetProperties](#)
- [getAssetPropertiesBindings](#)

- [getConfiguration](#)
- [getConfigurationGroups](#)
- [getProject](#)
- [getRule](#)
- [getRules](#)
- [getUserConfiguration](#)
- [getUserConfigurations](#)
- [importRepository](#)
- [publishProject](#)
- [resume](#)
- [saveOrchestrationValues](#)
- [saveProperties](#)
- [setConfigurationGroups](#)
- [start](#)
- [stopAndCancel](#)
- [stopAndWait](#)
- [suspend](#)
- [undeploy](#)

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00092.html>

## cancelJob

---

Cancels the specified job group.

Applies to Clouds and Integration Appliances.

### Parameters:

---

**projectName**

The name of the project.

**Version**

The version number for the project.

**configName**

The name used to identify a configuration, such as Default.

**jobId**

The ID for the job.

Together projectName, Version, and configName uniquely identify a configuration.

You can obtain the jobId by first running the searchJobs operation (orcmon.wsdl).

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00093.html>

## cloneConfiguration

---

Clones the specified configuration.

Applies to Clouds and Integration Appliances.

### Parameters:

---

projectName

The name of the specified project.

version

The version number for the specified project.

oldConfigName

The name of the configuration being cloned.

newConfigName

The name of the cloned configuration.

Returns:

The cloned configuration.

### Examples:

---

The following code is an example of a SOAP request to clone a configuration.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">
<soapenv:Header>
<dep:sessionId>855BE295392375C8551C8B98D6EA4774</dep:sessionId>
</soapenv:Header>
<soapenv:Body>
<dep:cloneConfiguration>
<dep:projectName>GenericProject_1_Cloud</dep:projectName>
<dep:version>1.0</dep:version>
<dep:oldConfigName>GenericProject_2_Cloud</dep:oldConfigName>
<dep:newConfigName>GenericProject_3_Cloud</dep:newConfigName>
</dep:cloneConfiguration>
</soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:cloneConfigurationResponse xmlns:ns2="http://www.approuter.com/
schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/
deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/
security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
<ns2:success>true</ns2:success>
</ns2:cloneConfigurationResponse>
</S:Body>
</S:Envelope>
```

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00094.html>

## createAssets

---

Creates assets by using the specified script.

The endpoint is specified as a project URL, such as project-url:// Endpoints/TargetDB. The module ID is typically either http://www.approuter.com/module/webservice/ or http:// www.approuter.com/module/database/

Database assets must be enclosed as specified in the following table.

Database	Enclosure
DB2® AS/400	" "
Informix®	[ ]
Microsoft SQL	[ ]
Oracle	" "
Sybase	" "

The following table lists the assets that can be created for the databases.

Database	Asset
DB2 As/400, Informix, Microsoft, Sybase	Applies to Clouds, Integration Appliances. Buffer tables, control tables, and triggers.
Local Staging Database	Buffer tables, control table, index tables, and triggers
Oracle	Buffer tables, control tables, sequences, and triggers

Applies to Clouds and Integration Appliances.

## Parameters:

---

### projectName

The name of the specified project.

### version

The version number for the specified project.

### configName

The configuration name for the specified project.

### ModuleID

The module ID for the assets.

### endpointUrl

The endpoint URL for the assets.

### propNames

The names of the property assets.

### username

The user ID for the endpoint.

### password

The password for the endpoint.

### assetType

The type of asset.

### script

The script to run against the endpoint.

Together projectName, version, and configName uniquely identify a configuration.

### Returns:

Success or failure.

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00095.html>

## createConfiguration

---

Creates the specified configuration.

Applies to Clouds and Integration Appliances.

### Parameters:

---

projectName

The name of the specified project.

version

The version number for the specified project.

configName

The configuration name for the specified project.

Together projectName, version, and configName uniquely identify a configuration.

Returns:

The specified configuration.

### Examples:

---

The following example is a SOAP request to create a configuration.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">
  <soapenv:Header>
    <dep:sessionId>85EBDCE6FF0685C296D79CD55D86405F</dep:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <dep:createConfiguration>
      <dep:projectName>HTTP_363i</dep:projectName>
      <dep:version>1.0</dep:version>
      <dep:configName>HTTP_363W</dep:configName>
    </dep:createConfiguration>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:createConfigurationResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
      <ns2:success>true</ns2:success>
    </ns2:createConfigurationResponse>
  </S:Body>
</S:Envelope>
```

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00096.html>

## createRepeatingRule

---

Creates a repeating rule for downtime for the specified configuration.

Applies to Clouds and Integration Appliances.

### Parameters:

---

#### projectName

The name of the specified project.

#### version

The version number for the specified project.

#### configName

The configuration name for the specified project.

#### stopDate

The date the configuration is to be stopped.

#### restartDate

The date the configuration is to be restarted.

#### downtimeType

The type or reason for the downtime.

#### repeat

Specifies that the downtime rule be repeated.

#### repeatInterval

Specifies the amount of time between repeats of the downtime rule.

Together projectName, version, and configName uniquely identify a configuration.

#### Returns:

The new repeating rule for the specified configuration.

---

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## createRule

---

Creates a downtime rule for the specified configuration.

Applies to Clouds and Integration Appliances.

### Parameters:

---

#### projectName

The name of the specified project.

#### version

The version number for the specified project.

#### configName

The configuration name for the specified project.

**stopDate**

The date the configuration is to be stopped.

**restartDate**

The date the configuration is to be restarted.

**downtimeType**

The type or reason for the downtime.

Together projectName, version, and configName uniquely identify a configuration.

**Returns:**

The new downtime rule for the specified configuration.

## Examples:

---

The following code is an example of a SOAP request to create a rule. Dates must conform to ISO 8601.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">
  <soapenv:Header>
    <dep:sessionId>8FDBC8ED7A014272714D23D14794473A</dep:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <dep:createRule>
      <dep:projectName>GenericProject_1_Cloud</dep:projectName>
      <dep:version>1.0</dep:version>
      <dep:configName>Default</dep:configName>
      <dep:stopDate>2010-04-17T07:00:00.066Z</dep:stopDate>
      <dep:restartDate>2010-04-17T08:00:00.066Z</dep:restartDate>
      <dep:downtimeType>stop</dep:downtimeType>
    </dep:createRule>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:createRuleResponse xmlns:ns2="http://www.approuter.com/
      schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/
      deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/
      security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
      <ns2:ruleId>2</ns2:ruleId>
    </ns2:createRuleResponse>
  </S:Body>
</S:Envelope>
```

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00098.html>

## createRuleTZ

---

Creates a downtime rule for the specified configuration, which includes timezone as well.

Applies to Clouds and Integration Appliances.

## Parameters:

---

**projectName**

The name of the specified project.

**version**  
The version number for the specified project.

**configName**  
The configuration name for the specified project.

**stopDate**  
The date the configuration is to be stopped.

**restartDate**  
The date the configuration is to be restarted.

**downtimeType**  
The type or reason for the downtime. The values for this property are `stop`, `stopAndCancel`, and `suspend`

**Stop (allows jobs to finish)** - At the specified time, this action prevents a new orchestration job from starting, while allowing the current jobs to finish processing. This action allows all jobs to end.

**Stop (cancel running jobs)** - At the specified time, this action prevents a new orchestration job from starting and stops all jobs that are currently running. This action immediately stops all jobs.

**Suspend** - At the specified time, prevents any new orchestrations from starting and pauses any jobs that are currently running. At the end of the scheduled downtime, the runtime processes the suspended job from the point it paused.

Together `projectName`, `version`, and `configName` uniquely identify a configuration.

**Returns:**

The new downtime rule for the specified configuration.

## Examples:

---

The following code is an example of a SOAP request to create a rule. Dates must conform to ISO 8601.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">
    <soapenv:Header>
      <dep:sessionId>8FDBC8ED7A014272714D23D14794473A</dep:sessionId>
    </soapenv:Header>
    <soapenv:Body>
      <dep:createRuleTZ>
        <dep:projectName>GenericProject_1_Cloud</dep:projectName>
        <dep:version>1.0</dep:version>
        <dep:configName>Default</dep:configName>
        <dep:stopDate>2010-04-17T07:00:00.066Z</dep:stopDate>
        <dep:restartDate>2010-04-17T08:00:00.066Z</dep:restartDate>
        <dep:downtimeType>stop</dep:downtimeType>
          <dep:timeZone>PDT</dep:timeZone>
        </dep:createRuleTZ>
      </soapenv:Body>
    </soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:createRuleTZResponse xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
      xmlns:ns4="http://www.approuter.com/schema/router/1000/security/03"
      xmlns:ns3="http://www.approuter.com/schemas/2008/1/deployment/types"
      xmlns:ns2="http://www.approuter.com/schemas/2008/1/deployment">
        <ns2:ruleId>1572864</ns2:ruleId>
      </ns2:createRuleTZResponse>
    </S:Body>
  </S:Envelope>
```

---

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## createUserConfiguration

---

Creates the specified user configuration.

Applies to Clouds and Integration Appliances.

### Parameters:

---

**projectName**

The name of the specified project.

**version**

The version number for the specified project.

**configName**

The configuration name for the specified project.

Together projectName, version, and configName uniquely identify a configuration.

Returns:

The specified user configuration.

---

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## deleteConfiguration

---

Deletes the specified configuration.

Applies to Clouds and Integration Appliances.

### Parameters:

---

**projectName**

The name of the specified project.

**version**

The version number for the specified project.

**configName**

The configuration name for the specified project.

Together projectName, version, and configName uniquely identify a configuration.

### Examples:

---

The following code is an example of a SOAP request to delete a configuration.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
    xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">  
    <soapenv:Header>  
        <dep:sessionId>AACAA96757B36C2B4582C811197EE43C0</dep:sessionId>  
    </soapenv:Header>
```

```

<soapenv:Body>
  <dep:deleteConfiguration>
    <dep: projectName>HTTP_363i</dep: projectName>
    <dep: version>1.0</dep: version>
    <dep: configName>HTTP_363j</dep: configName>
  </dep: deleteConfiguration>
</soapenv: Body>
</soapenv: Envelope>

```

The following example is the SOAP response to the request.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:deleteConfigurationResponse xmlns:ns2="http://www.approuter.com/
schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/
deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/
security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
      <ns2:success>true</ns2:success>
    </ns2:deleteConfigurationResponse>
  </S:Body>
</S:Envelope>

```

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## [deleteProject](#)

Deletes the specified project.

Applies to Clouds and Integration Appliances.

### Parameters:

**projectName**  
The name of the specified project.

**version**  
The version number for the specified project.

### Examples:

The following code is an example of a SOAP request to delete a project.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <ns1:deleteConfiguration xmlns:ns1="http://www.approuter.com/schemas/2008/1/deployment">
    <soapenv:Header>
      <dep:sessionId>80C147E844799CA856AF3DB6910C4B63</dep:sessionId>
    </soapenv:Header>
    <soapenv:Body>
      <dep:deleteProject>
        <dep: projectName>MIME_Test1</dep: projectName>
        <dep: version>1.0</dep: version>
      </dep: deleteProject>
    </soapenv: Body>
  </soapenv: Envelope>

```

The following example is the SOAP response to the request.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:deleteProjectResponse xmlns:ns2="http://www.approuter.com/
schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/
deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/
security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
      <ns2:success>true</ns2:success>
    </ns2:deleteProjectResponse>
  </S:Body>
</S:Envelope>

```

```
deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/
security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
<ns2:success>true</ns2:success>
</ns2:deleteProjectResponse>
</S:Body>
</S:Envelope>
```

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00101.html>

## deleteRule

---

Deletes the rule for the specified ID.

Applies to Clouds and Integration Appliances.

### Parameter:

---

ruleId

The specified ID for the rule to be deleted.

### Examples:

---

The following code is an example of a SOAP request to delete a rule.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" 
xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">
<soapenv:Header>
<dep:sessionId>8FDBC8ED7A014272714D23D14794473A</dep:sessionId>
</soapenv:Header>
<soapenv:Body>
<dep:deleteRule>
<dep:ruleId>2</dep:ruleId>
</dep:deleteRule>
</soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:deleteRuleResponse xmlns:ns2="http://www.approuter.com/
schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/
deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/
security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
<ns2:success>true</ns2:success>
</ns2:deleteRuleResponse>
</S:Body>
</S:Envelope>
```

---

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## **deleteUserConfiguration**

---

Deletes the specified configuration for the specified user.

Applies to Clouds and Integration Appliances.

### **Parameters:**

---

**userName**

The name of the specified user.

**projectName**

The name of the specified project.

**version**

The version number for the specified project.

**configName**

The configuration name for the specified project.

Together projectName, version, and configName uniquely identify a configuration.

### **Examples:**

---

The following example is a SOAP request to delete the specified configuration.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">
  <soapenv:Header>
    <dep:sessionId>AAC96757B36C2B4582C811197EE43C0</dep:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <dep:deleteConfiguration>
      <dep:projectName>HTTP_363i</dep:projectName>
      <dep:version>1.0</dep:version>
      <dep:configName>HTTP_363j</dep:configName>
    </dep:deleteConfiguration>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP reply to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:deleteConfigurationResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
      <ns2:success>true</ns2:success>
    </ns2:deleteConfigurationResponse>
  </S:Body>
</S:Envelope>
```

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00103.html>

## **downloadProject**

---

Downloads the specified project as a byte array.

Applies to Clouds and Integration Appliances.

## Parameters:

---

projectName

The name of the specified project.

version

The version number for the specified project.

configName

The configuration name for the specified project.

Together projectName, version, and configName uniquely identify a configuration.

Returns:

The specified project in a compressed file.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00104.html>

## exportRepository

---

Exports the project repository in XML format.

Applies to Integration Appliances only.

Returns:

The project repository in XML format.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00105.html>

## getAllProjects

---

Gets all the projects.

Applies to Clouds and Integration Appliances.

Returns:

All the projects.

## Examples:

---

The following example is a SOAP request to get all projects.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
    xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">  
    <soapenv:Header>
```

```

<dep:sessionId>85EBDCE6FF0685C296D79CD55D86405F</dep:sessionId>
</soapenv:Header>
<soapenv:Body>
  <dep:getAllProjects/>
</soapenv:Body>
</soapenv:Envelope>

```

The following example is the SOAP response to the request.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:getAllProjectsResponse xmlns:ns2="http://www.approuter.com/
      schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/
      deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/
      security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
      <ns2:projects>
        <assets/>
        <configurations>
          <configuration>
            <envId>
              <guidString>A51EDD44BE6C10B2D1335A9D634D407D</guidString>
            </envId>
            <lastmodified>2010-04-03T06:28:42.078Z</lastmodified>
            <name>Default</name>
            <orchestrationValues>
              <orchestrationValue>
                <enabled>true</enabled>
                <syncLoggingEnabled>false</syncLoggingEnabled>
                <loggingLevel>errorValues</loggingLevel>
                <maxJobs>1</maxJobs>
                <orchestrationRelativeurl>project-url://
                  Orchestrations/Receive</orchestrationRelativeurl>
                <state>undeployed</state>
              </orchestrationValue>
              <orchestrationValue>
                <enabled>true</enabled>
                <syncLoggingEnabled>false</syncLoggingEnabled>
                <loggingLevel>errorValues</loggingLevel>
                <maxJobs>1</maxJobs>
                <orchestrationRelativeurl>project-url://
                  Orchestrations/Post</orchestrationRelativeurl>
                <state>undeployed</state>
              </orchestrationValue>
            </orchestrationValues>
            < projectName>HTTP_363i</projectName>
            < projectVersion>1.0</projectVersion>
            < propertyValues/>
            < state>undeployed</state>
          </configuration>
        </configurations>
        <envId>
          <guidString>A51EDD44BE6C10B2D1335A9D634D407D</guidString>
        </envId>
        <lastpublished>2010-04-03T06:28:41.894Z</lastpublished>
        <name>HTTP_363i</name>
      <orchestrations>
        <orchestration>
          <relativeurl>project-url://Orchestrations/Post</relativeurl>
        </orchestration>
        <orchestration>
          <relativeurl>project-url://Orchestrations/Receive</
            relativeurl>
        </orchestration>
      </orchestrations>
      <properties/>
      <version>1.0</version>
    </ns2:projects>
  </ns2:getAllProjectsResponse>
</S:Body>
</S:Envelope>

```

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00106.html>

## getAssetGroupDisplayString

---

Gets the asset display string for the specified configuration, endpoint, and property names.

The endpoint is specified as a project URL, such as project-url://Endpoints/TargetDB. The module ID is typically either http://www.approuter.com/module/webservice/ or http://www.approuter.com/module/database/

Applies to Clouds and Integration Appliances.

### Parameters:

---

projectName

The name of the specified project.

version

The version number for the specified project.

configName

The configuration name for the specified project.

ModuleID

The module ID for the assets.

endpointUrl

The endpoint URL for the assets.

propNames

The names of the property assets.

Together projectName, version, and configName uniquely identify a configuration.

Returns:

The asset display string.

---

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## getAssetGroupScript

---

Gets the asset script for the given configuration, endpoint, and property names.

The endpoint is specified as a project URL, such as project-url://Endpoints/TargetDB. The module ID is typically either http://www.approuter.com/module/webservice/ or http://www.approuter.com/module/database/

Applies to Clouds and Integration Appliances.

### Parameters:

---

projectName

The name of the specified project.

version

The version number for the specified project.

configName

The configuration name for the specified project.

ModuleID

The module ID for the assets.

endpointUrl

The endpoint URL for the assets.

propNames

The names of the property assets.

Together projectName, version, and configName uniquely identify a configuration.

Returns:

The asset script.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00108.html>

## getAssetGroupWarnings

---

Gets the asset warnings for the specified configuration, endpoint, and property names.

The endpoint is specified as a project URL, such as project-url://Endpoints/TargetDB. The module ID is typically either http://www.approuter.com/module/webservice/ or http://www.approuter.com/module/database/

Applies to Clouds and Integration Appliances.

### Parameters:

---

projectName

The name of the specified project.

version

The version number for the specified project.

configName

The configuration name for the specified project.

ModuleID

The module ID for the assets.

endpointUrl

The endpoint URL for the assets.

propNames

The names of the property assets.

Together projectName, version, and configName uniquely identify a configuration.

Returns:

The asset warnings.

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00109.html>

## getAssetProperties

---

Gets the asset property values for the specified configuration and endpoint.

The endpoint is specified as a project URL, for example project-url://Endpoints/TargetDB. The module ID is typically either http://www.approuter.com/module/webservice/ or http://www.approuter.com/module/database/

Applies to Clouds and Integration Appliances.

### Parameters:

---

projectName

The name of the specified project.

version

The version number for the specified project.

configName

The configuration name for the specified project.

ModuleID

The module ID for the assets.

endpointUrl

The endpoint URL for the assets.

Together projectName, version, and configName uniquely identify a configuration.

Returns:

The values for the asset properties.

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00110.html>

## getAssetPropertiesBindings

---

Gets the asset properties for the specified configuration, endpoint, and property names.

The endpoint is specified as a project URL, such as project-url://Endpoints/TargetDB. The module ID is typically either http://www.approuter.com/module/webservice/ or http://www.approuter.com/module/database/

Applies to Clouds and Integration Appliances.

### Parameters:

---

projectName

The name of the specified project.

version

The version number for the specified project.

configName

The configuration name for the specified project.

ModuleID

The module ID for the assets.

endpointUrl

The endpoint URL for the assets.

propNames

The names of the property assets.

Together projectName, version, and configName uniquely identify a configuration.

Returns:

The asset properties.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00111.html>

## getConfiguration

---

Gets the specified project.

Applies to Clouds and Integration Appliances.

### Parameters:

---

projectName

The name of the specified project.

Version

The version number for the specified project.

Returns:

The specified project.

### Examples:

---

The following example is a SOAP request to get a specified project:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
    xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">  
    <soapenv:Header>  
        <dep:sessionId>85EBDCE6FF0685C296D79CD55D86405F</dep:sessionId>  
    </soapenv:Header>  
    <soapenv:Body>  
        <dep:getConfiguration>  
            <dep:projectName>HTTP_363i</dep:projectName>  
            <dep:version>1.0</dep:version>  
            <dep:configName>HTTP_363j</dep:configName>  
        </dep:getConfiguration>  
    </soapenv:Body>  
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:getConfigurationResponse xmlns:ns2="http://www.approuter.com/
schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/
deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/
security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
<ns2:configuration>
<envId>
<guidString>A51EDD44BE6C10B2D1335A9D634D407D</guidString>
</envId>
<lastmodified>2010-04-08T20:58:49.694Z</lastmodified>
<name>HTTP_363j</name>
<orchestrationValues>
<orchestrationValue>
<enabled>true</enabled>
<syncLoggingEnabled>false</syncLoggingEnabled>
<loggingLevel>errorValues</loggingLevel>
<maxJobs>1</maxJobs>
<orchestrationRelativeurl>project-url://Orchestrations/
Post</orchestrationRelativeurl>
<state>stopped</state>
</orchestrationValue>
<orchestrationValue>
<enabled>true</enabled>
<syncLoggingEnabled>false</syncLoggingEnabled>
<loggingLevel>errorValues</loggingLevel>
<maxJobs>1</maxJobs>
<orchestrationRelativeurl>project-url://Orchestrations/
Receive</orchestrationRelativeurl>
<state>stopped</state>
</orchestrationValue>
</orchestrationValues>
< projectName>HTTP_363i</projectName>
< projectVersion>1.0</projectVersion>
< propertyValues />
< state>stopped</state>
</ns2:configuration>
</ns2:getConfigurationResponse>
</S:Body>
</S:Envelope>
```

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00112.html>

## getConfigurationGroups

---

Gets the display names for the groups with permission for the given configuration.

Applies to Clouds and Integration Appliances.

### Parameters:

---

projectName

The name of the specified project.

version

The version number for the specified project.

configName

The configuration name for the specified project.

Together projectName, version, and configName uniquely identify a configuration.

Returns:

The group display names.

## Examples:

---

The following example is a SOAP request to get configuration groups with permission for the specified configuration.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">
  <soapenv:Header>
    <dep:sessionId>AACAA96757B36C2B4582C811197EE43C0</dep:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <dep:getConfigurationGroups>
      <dep:projectName>HTTP_363i</dep:projectName>
      <dep:version>1.0</dep:version>
      <dep:configName>HTTP_363j</dep:configName>
    </dep:getConfigurationGroups>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP reply to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
  <ns2:getConfigurationGroupsResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
    <ns2:groupDisplayNames>
      <ns4:id>8D8D61C4EF435FDB63E543509B9F4978</ns4:id>
      <ns4:name>admin@A51EDD44BE6C10B2D1335A9D634D407D</ns4:name>
      <ns4:displayName>Administrator Group</ns4:displayName>
      <ns4:isActive>true</ns4:isActive>
      <ns4:isMutable>false</ns4:isMutable>
      <ns4:isVisible>true</ns4:isVisible>
      <ns4:createdTime>2010-04-02T22:44:46Z</ns4:createdTime>
      <ns4:scopeId>A51EDD44BE6C10B2D1335A9D634D407D</ns4:scopeId>
      <ns4:scopeType>Environment</ns4:scopeType>
      <ns4:groupType>Admin</ns4:groupType>
    </ns2:groupDisplayNames>
  </ns2:getConfigurationGroupsResponse>
</S:Body>
</S:Envelope>
```

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00113.html>

## getProject

---

Gets the specified project.

Applies to Clouds and Integration Appliances.

### Parameters:

---

projectName

The name of the specified project.

Version

The version number for the specified project.

Returns:

The specified project.

## Examples:

---

The following example is a SOAP request to get the specified project.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">
  <soapenv:Header>
    <dep:sessionId>85EBDCE6FF0685C296D79CD55D86405F</dep:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <dep:getProject>
      <dep: projectName>HTTP_363i</dep: projectName>
      <dep: version>1.0</dep: version>
    </dep: getProject>
  </soapenv: Body>
</soapenv: Envelope>
```

The following example is the SOAP response to the request.

```
<S:Body>
  <ns2: getProjectResponse xmlns:ns2="http://www.approuter.com/
  schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/
  deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/
  security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
    <ns2: project>
      <assets />
      <configurations>
        <configuration>
          <envId>
            <guidString>A51EDD44BE6C10B2D1335A9D634D407D</guidString>
          </envId>
          <lastmodified>2010-04-03T06:28:42.078Z</lastmodified>
          <name>Default</name>
          <orchestrationValues>
            <orchestrationValue>
              <enabled>true</enabled>
              <syncLoggingEnabled>false</syncLoggingEnabled>
              <loggingLevel>errorValues</loggingLevel>
              <maxJobs>1</maxJobs>
              <orchestrationRelativeurl>project-url://
Orchestrations/Post</
orchestrationRelativeurl>
              <state>undeployed</state>
            </orchestrationValue>
            <orchestrationValue>
              <enabled>true</enabled>
              <syncLoggingEnabled>false</syncLoggingEnabled>
              <loggingLevel>errorValues</loggingLevel>
              <maxJobs>1</maxJobs>
              <orchestrationRelativeurl>project-url://
Orchestrations/Receive</
orchestrationRelativeurl>
              <state>undeployed</state>
            </orchestrationValue>
          </orchestrationValues>
          <projectName>HTTP_363i</projectName>
          <projectVersion>1.0</projectVersion>
          <propertyValues />
          <state>undeployed</state>
        </configuration>
      </configurations>
      <envId>
        <guidString>A51EDD44BE6C10B2D1335A9D634D407D</guidString>
      </envId>
      <lastpublished>2010-04-03T06:28:41.894Z</lastpublished>
      <name>HTTP_363i</name>
      <orchestrations>
        <orchestration>
          <relativeurl>project-url://Orchestrations
/Post</relativeurl>
```

```

</orchestration>
<orchestration>
  <relativeurl>project-url://Orchestrations/Recieve</
  relativeurl>
</orchestration>
</orchestrations>
<properties/>
<version>1.0</version>
</ns2:project>
</ns2:getProjectResponse>
</S:Body>
</S:Envelope>

```

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00114.html>

## getRule

---

Gets the downtime rule for the specified downtime rule ID.

Applies to Clouds and Integration Appliances.

### Parameters:

---

ruleId

The specified downtime rule ID.

Returns:

The downtime rule.

### Examples:

---

The following code is an example of a SOAP request to get a rule.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <ns1:dep xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">
    <soapenv:Header>
      <dep:sessionId>8FDBC8ED7A014272714D23D14794473A</dep:sessionId>
    </soapenv:Header>
    <soapenv:Body>
      <dep:getRule>
        <dep:ruleId>2</dep:ruleId>
      </dep:getRule>
    </soapenv:Body>
  </ns1:dep>
</soapenv:Envelope>

```

The following example is the SOAP response to the request.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:getRuleResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/
    deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/deployment/
    types" xmlns:ns4="http://www.approuter.com/schema/router/1000/security/03"
    xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
      <ns2:rule>
        <ns3:configUrl>config-url://GenericProject_1_Cloud:1.0:Default</
        ns3:configUrl>
        <ns3:downtimeType>stop</ns3:downtimeType>
        <ns3:envId>
          <guidString>A7FFE81243A1E319FCAED0DFABF9470B</guidString>
        </ns3:envId>
        <ns3:isActive>true</ns3:isActive>
      </ns2:rule>
    </ns2:getRuleResponse>
  </S:Body>
</S:Envelope>

```

```

<ns3:repeatInterval>0</ns3:repeatInterval>
<ns3:repeatType>none</ns3:repeatType>
<ns3:repeatingRule>false</ns3:repeatingRule>
<ns3:restartDate>2010-04-17T08:00:00.066Z</ns3:restartDate>
<ns3:ruleId>2</ns3:ruleId>
<ns3:stopDate>2010-04-17T07:00:00.066Z</ns3:stopDate>
</ns2:rule>
</ns2:getRuleResponse>
</S:Body>
</S:Envelope>

```

---

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## getRules

---

Gets the downtime rules for the specified configuration.

Applies to Clouds and Integration Appliances.

### Parameters:

---

#### projectName

The name of the specified project.

#### Version

The version number for the specified project.

#### configName

The configuration name for the specified project.

Together projectName, version, and configName uniquely identify a configuration.

#### Returns:

The downtime rules for the specified configuration.

### Examples:

---

The following code is an example of a SOAP request to get rules.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <ns1:dep="http://www.approuter.com/schemas/2008/1/deployment">
    <soapenv:Header>
      <dep:sessionId>8FDBC8ED7A014272714D23D14794473A</dep:sessionId>
    </soapenv:Header>
    <soapenv:Body>
      <dep:getRules>
        <dep:projectName>GenericProject_1_Cloud</dep:projectName>
        <dep:version>1.0</dep:version>
        <dep:configName>Default</dep:configName>
      </dep:getRules>
    </soapenv:Body>
  </ns1:Envelope>

```

The following example is the SOAP response to the request.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:getRulesResponse xmlns:ns2="http://www.approuter.com/
      schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/
      deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/
      security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">

```

```
<ns2:rules>
<ns3:configUrl>config-url://GenericProject_1_Cloud:1.0:Default</
ns3:configUrl>
<ns3:downtimeType>stop</ns3:downtimeType>
<ns3:envId>
<guidString>A7FFE81243A1E319FCAED0DFABF9470B</guidString>
</ns3:envId>
<ns3:isActive>true</ns3:isActive>
<ns3:repeatInterval>0</ns3:repeatInterval>
<ns3:repeatType>none</ns3:repeatType>
<ns3:repeatingRule>false</ns3:repeatingRule>
<ns3:restartDate>2010-04-17T08:00:00.066Z</ns3:restartDate>
<ns3:ruleId>2</ns3:ruleId>
<ns3:stopDate>2010-04-17T07:00:00.066Z</ns3:stopDate>
</ns2:rules>
</ns2:getRulesResponse>
</S:Body>
</S:Envelope>
```

---

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## getUserConfiguration

---

Gets the specified configuration for the specified user.

Applies to Clouds and Integration Appliances.

### Parameters:

---

userName

The name of the specified user.

projectName

The name of the specified project.

version

The version number for the specified project.

configName

The configuration name for the specified project.

Together projectName, version, and configName uniquely identify a configuration.

Returns:

The specified configuration for specified user.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00117.html>

## getUserConfigurations

---

Gets the configurations for the specified user.

Applies to Clouds and Integration Appliances.

## Parameter:

---

userName

The name of the specified user.

Returns:

The configurations for the specified user.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00118.html>

## importRepository

---

Imports the project repository in XML format.

Applies to Integration Appliances only.

## Parameters:

---

importType

The type of import.

data

The project repository in XML format.

Returns:

Success or failure

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00119.html>

## publishProject

---

Publishes the given project and creates a default configuration.

Applies to Clouds and Integration Appliances.

## Parameters:

---

projectName

The name of the specified project.

version

The version number for the specified project.

content

The project in a compressed file (a .par file).

Returns:

Success or failure.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00120.html>

## resume

---

Resumes the specified configuration

Applies to Clouds and Integration Appliances.

### Parameters:

---

projectName

The name of the specified project.

version

The version number for the specified project.

configName

The configuration name for the specified project.

Together projectName, version, and configName uniquely identify a configuration.

Returns:

Success or failure.

### Examples:

---

The following example is a SOAP request to resume running a configuration that was paused.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">
  <soapenv:Header>
    <dep:sessionId>85EBDCE6FF0685C296D79CD55D86405F</dep:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <dep:resume>
      <dep:projectName>HTTP_363i</dep:projectName>
      <dep:version>1.0</dep:version>
      <dep:configName>HTTP_363j</dep:configName>
    </dep:resume>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:resumeResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
      <ns2:success>true</ns2:success>
    </ns2:resumeResponse>
  </S:Body>
</S:Envelope>
```

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file:///dcs/markdown/workspace/Transform/out.html

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00121.html>

## saveOrchestrationValues

---

Saves the specified values for the specified orchestration.

Applies to Clouds and Integration Appliances.

### Parameters:

---

projectName

The name of the specified project.

version

The version number for the specified project.

configName

The configuration name for the specified project.

values

The specified values to save for the specified orchestration.

Together projectName, version, and configName uniquely identify a configuration.

Returns:

Success or failure.

### Examples:

---

The following example is a SOAP request to save the values for the specified orchestration.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">
    <soapenv:Header>
      <dep:sessionId>AAC96757B36C2B4582C811197EE43C0</dep:sessionId>
    </soapenv:Header>
    <soapenv:Body>
      <dep:saveOrchestrationValues>
        <dep:projectName>HTTP_363i</dep:projectName>
        <dep:version>1.0</dep:version>
        <dep:configName>HTTP_363j</dep:configName>
        <dep:values>
          <enabled>true</enabled>
          <syncLoggingEnabled>false</syncLoggingEnabled>
          <loggingLevel>errorValues</loggingLevel>
          <maxJobs>1</maxJobs>
          <orchestrationRelativeurl>orchestrationRelativeurl>project-url://
Orchestrations/
Receive</orchestrationRelativeurl>
<state>stopped</state>
</dep:values>
      </dep:saveOrchestrationValues>
    </soapenv:Body>
  </soapenv:Envelope>
```

The following example is the SOAP reply to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:saveOrchestrationValuesResponse xmlns:ns2="http://
```

```
www.approuter.com/schemas/2008/1/deployment" xmlns:ns3="http://
www.approuter.com/schemas/2008/1/deployment/types" xmlns:ns4="http://
www.approuter.com/schema/router/1000/security/03" xmlns:ns5="http://
www.approuter.com/schemas/2008/1/util/types">
<ns2:success>true</ns2:success>
</ns2:saveOrchestrationValuesResponse>
</S:Body>
</S:Envelope>
```

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00122.html>

## saveProperties

---

Saves the specified properties for the specified configuration.

Applies to Clouds and Integration Appliances.

### Parameters:

---

**projectName**

The name of the specified project.

**Version**

The version number for the specified project.

**configName**

The configuration name for the specified project.

**properties**

The specified properties to save for the specified configuration.

Together projectName, version, and configName uniquely identify a configuration.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00123.html>

## setConfigurationGroups

---

Sets the groups with permission for the specified project.

Applies to Clouds and Integration Appliances.

### Parameters:

---

**projectName**

The name of the specified project.

**version**

The version number for the specified project.

**configName**

The configuration name for the specified project.

**groupIds**

The IDs for the groups.

Together projectName, version, and configName uniquely identify a configuration.

Returns:

Success or failure.

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00124.html>

## start

---

Starts the specified configuration.

Applies to Clouds and Integration Appliances.

### Parameters:

---

**projectName**

The name of the specified project.

**version**

The version number for the specified project.

**configName**

The configuration name for the specified project.

Together projectName, version, and configName uniquely identify a configuration.

Returns:

Success or failure.

### Examples:

---

The following example is a SOAP request to start a configuration.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">
  <soapenv:Header>
    <dep:sessionId>85EBDCE6FF0685C296D79CD55D86405F</dep:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <dep:start>
      <dep:projectName>HTTP_363i</dep:projectName>
      <dep:version>1.0</dep:version>
      <dep:configName>HTTP_363j</dep:configName>
    </dep:start>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
```

```

<ns2:startResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
  <ns2:success>true</ns2:success>
</ns2:startResponse>
</S:Body>
</S:Envelope>

```

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00125.html>

## stopAndCancel

---

Stops and cancels all the jobs for the specified configuration.

Applies to Clouds and Integration Appliances.

### Parameters:

---

**projectName**

The name of the specified project.

**version**

The version number for the specified project.

**configName**

The configuration name for the specified project.

Together projectName, version, and configName uniquely identify a configuration.

**Returns:**

Success or failure.

### Examples:

---

The following example is a SOAP request to stop and cancel the configuration.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <ns1:dep="http://www.approuter.com/schemas/2008/1/deployment">
    <soapenv:Header>
      <dep:sessionId>85EBDCE6FF0685C296D79CD55D86405F</dep:sessionId>
    </soapenv:Header>
    <soapenv:Body>
      <dep:stopAndCancel>
        <dep:projectName>HTTP_363i</dep:projectName>
        <dep:version>1.0</dep:version>
        <dep:configName>HTTP_363j</dep:configName>
      </dep:stopAndCancel>
    </soapenv:Body>
  </ns1:dep>
</soapenv:Envelope></soapenv:Envelope>

```

The following example is the SOAP response to the request.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:stopAndCancelResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
      <ns2:success>true</ns2:success>
    </ns2:stopAndCancelResponse>
  </S:Body>
</S:Envelope>

```

```
</S:Body>
</S:Envelope>
```

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00126.html>

## stopAndWait

---

Stops and waits for jobs for the specified configuration.

Applies to Clouds and Integration Appliances.

### Parameters:

---

projectName  
The name of the specified project.

version  
The version number for the specified project.

configName  
The configuration name for the specified project.

Together projectName, version, and configName uniquely identify a configuration.

Returns:  
Success or failure

### Examples:

---

The following example is a SOAP request to stop the configuration and wait.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">
    <soapenv:Header>
      <dep:sessionId>85EBDCE6FF0685C296D79CD55D86405F</dep:sessionId>
    </soapenv:Header>
    <soapenv:Body>
      <dep:stopAndWait>
        <dep:projectName>HTTP_363i</dep:projectName>
        <dep:version>1.0</dep:version>
        <dep:configName>HTTP_363j</dep:configName>
      </dep:stopAndWait>
    </soapenv:Body>
  </soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:stopAndWaitResponse xmlns:ns2="http://www.approuter.com/
      schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/
      deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/
      security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
      <ns2:success>true</ns2:success>
    </ns2:stopAndWaitResponse>
  </S:Body>
</S:Envelope>
```

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file:///dcs/markdown/workspace/Transform/out.html

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00127.html>

## suspend

---

Suspends the specified configuration.

Applies to Clouds and Integration Appliances.

### Parameters:

---

projectName

The name of the specified project.

version

The version number for the specified project.

configName

The configuration name for the specified project.

Together projectName, version, and configName uniquely identify a configuration.

Returns:

Success or failure.

### Examples:

---

The following example is a SOAP request to suspend the specified configuration.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">
  <soapenv:Header>
    <dep:sessionId>85EBDCE6FF0685C296D79CD55D86405F</dep:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <dep:suspend>
      <dep:projectName>HTTP_363i</dep:projectName>
      <dep:version>1.0</dep:version>
      <dep:configName>HTTP_363j</dep:configName>
    </dep:suspend>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:suspendResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
      <ns2:success>true</ns2:success>
    </ns2:suspendResponse>
  </S:Body>
</S:Envelope>
```

## undeploy

---

Withdraw the specified configuration.

Applies to Clouds and Integration Appliances.

### Parameters:

---

projectName

The name of the specified project.

version

The version number for the specified project.

configName

The configuration name for the specified project.

Together projectName, version, and configName uniquely identify a configuration.

Returns:

Success or failure.

### Examples:

---

The following example is a SOAP request to withdraw the specified configuration.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:dep="http://www.approuter.com/schemas/2008/1/deployment">
  <soapenv:Header>
    <dep:sessionId>85EBDCE6FF0685C296D79CD55D86405F</dep:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <dep:undeploy>
      <dep:projectName>HTTP_363i</dep:projectName>
      <dep:version>1.0</dep:version>
      <dep:configName>HTTP_363j</dep:configName>
    </dep:undeploy>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:undeployResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/deployment" xmlns:ns3="http://www.approuter.com/schemas/2008/1/deployment/types" xmlns:ns4="http://www.approuter.com/schema/router/1000/security/03" xmlns:ns5="http://www.approuter.com/schemas/2008/1/util/types">
      <ns2:success>true</ns2:success>
    </ns2:undeployResponse>
  </S:Body>
</S:Envelope>
```

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00129.html>

Information about the orcmmon WSDL.

Using the orcmmon WSDL, you can search for jobs, get a job count, and get job details. You can also set and get job monitoring properties.

This section contains the following topics:

- [getJobCount](#)
- [getJobDetails](#)
- [getMonitoringProperties](#)
- [purgeJobs](#)
- [searchJobs](#)
- [setMonitoringProperties](#)

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00130.html>

## getJobCount

---

Returns the number of jobs that have the specified parameters.

Applies to Clouds and Integration Appliances.

### Parameters:

---

#### projectName

The name of the project that contains the configuration where the jobs run.

#### version

The version number of the project.

#### configName

The name of the configuration that contains the orchestration where the jobs run. For the default configuration, this value should be 'Default'.

#### orchName

The name of the orchestration where the jobs run.

#### jobId (optional)

The ID of the jobs for which a count is returned.

#### jobKey (optional)

The job key for the jobs for which a count is returned.

#### minStartDate

The earliest date that the jobs started.

#### maxStartDate

The latest date that the jobs started.

#### status

The status of the jobs.

â€“Setting status as negative gets all status.

â€“Setting specific status value (number or lowercase keyword) gets jobs with that status:

- success = 0
- errored = 1

- running = 2
- cancelling = 3
- terminated = 4
- cancelled = 5
- suspended = 6
- crashed = 7
- suspending = 8
- unknown = 101

Returns:

The number of jobs.

---

#### [Feedback](#) | [Notices](#)

 Last updated: Wednesday, 06 February 2019  
file:///dcs/markdown/workspace/Transform/out.html

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00131.html>

## getJobDetails

---

Returns the details for the job with the specified parameters.

Applies to Clouds and Integration Appliances.

### Parameters:

---

projectName

The name of the project that contains the configuration where the job runs.

version

The version number of the project.

configName

The name of the configuration that contains the orchestration where the job runs.

orchName

The name of the orchestration where the job runs.

jobId

The ID of the job for which the details are returned.

Returns:

The job details for the job that has the specified parameters.

---

#### [Feedback](#) | [Notices](#)

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00132.html>

## getMonitoringProperties

---

Gets the properties for managing orchestration monitoring data.

Applies to Integration Appliances only.

Returns:

The monitoring properties.

---

#### [Feedback](#) | [Notices](#)

 Last updated: Thursday, 2 June 2016

file:///dcs/markdown/workspace/Transform/out.html

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00133.html>

## purgeJobs

---

Purges jobs that have the specified parameters.

Applies to Integration Appliances only.

### Parameters:

---

projectName

The name of the project that contains the configuration where the jobs run.

version

The version number of the project.

configName

The name of the configuration that contains the orchestration where the jobs run.

orchName

The name of the orchestration where the jobs run.

jobId

The ID of the job to be purged.

jobKey

The job key for the jobs to be purged.

minStartDate

The earliest date that the jobs started.

maxStartDate

The latest date that the jobs started.

status

The status of the jobs.

exportJobs

Whether to return the purged jobs - true or false.

Returns:

The purged jobs if exportJobs is set to true.

---

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 Last updated: Thursday, 2 June 2016

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## searchJobs

---

Returns the jobs that have the specified parameters.

Applies to Clouds and Integration Appliances.

### Parameters:

---

#### projectName

The name of the project that contains the configuration where the jobs run.

#### version

The version number of the project.

#### configName

The name of the configuration that contains the orchestration where the jobs run.

#### orchName

The name of the orchestration where the jobs run.

#### jobId

The ID of the jobs to be returned.

#### jobKey

The job key for the jobs to be returned.

#### minStartDate

The earliest date that the jobs started.

#### maxStartDate

The latest date that the jobs started.

#### status

The status of the jobs.

#### page

0-based page numbering.

#### pageSize

The number of lines per page.

#### Returns:

The jobs that have the specified parameters.

### Examples:

---

The following code is an example of a SOAP request to search jobs.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
    xmlns:orc="http://www.approuter.com/schemas/2008/1/orcmon">  
    <soapenv:Header>  
        <orc:sessionId>834133D57E9259C94D44E53A5F6B43C2</orc:sessionId>  
    </soapenv:Header>  
    <soapenv:Body>  
        <orc:searchJobs>  
            <orc: projectName>CloudProvideProject_2</orc: projectName>  
            <orc: version>1.0</orc: version>  
            <orc: configName>Default</orc: configName>  
            <orc: orchName>ProvideOnCloud</orc: orchName>  
            <orc: jobId></orc: jobId>  
            <orc: jobKey></orc: jobKey>  
            <orc: minStartDate></orc: minStartDate>  
            <orc: maxStartDate></orc: maxStartDate>  
            <orc: status>errored</orc: status>  
            <orc: page>0</orc: page>  
            <orc: pageSize>1</orc: pageSize>
```

```
</orc:searchJobs>
</soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns3:searchJobsResponse xmlns:ns2="http://www.approuter.com/
schemas/2005/1/monitoringProps/" xmlns:ns3="http://www.approuter.com/
schemas/2008/1/orcmon" xmlns:ns4="http://www.approuter.com/schemas/2004/1/
orcmon/" xmlns:ns5="http://www.approuter.com/schema/router/1000/logging.xsd"
xmlns:ns6="http://www.approuter.com/schemas/2004/1/orcmon">
<ns3:jobs status="1" startTime="2010-04-15T10:40:02.665Z"
path="CloudProvideProject_2/1.0/Default/Orchestrations/ProvideOnCloud">

id=" dcs_markdown_workspace_Transform_htmlout_0_com.ibm.wci.api.doc_ci00135_ADCF71CCD81139F8CF16F81599
8B4B73" endTime="2010-04-15T10:40:38.066Z">
<ns6:event seqNum="0">
<ns6:eventType>
<ns4:taskStartLoggedEvent>
<ns4:taskId>ADCF71CCD81139F8CF16F815998B4B73</ns4:taskId>
<ns4:sequenceNumber>0</ns4:sequenceNumber>
<ns4:time>2010-04-15T10:40:02.665Z</ns4:time>
</ns4:taskStartLoggedEvent>
</ns6:eventType>
</ns6:event>
<ns6:event seqNum="1">
<ns6:eventType>
<ns4:setStatusLoggedEvent>
<ns4:taskId>ADCF71CCD81139F8CF16F815998B4B73</ns4:taskId>
<ns4:sequenceNumber>1</ns4:sequenceNumber>
<ns4:status>2</ns4:status>
</ns4:setStatusLoggedEvent>
</ns6:eventType>
</ns6:event>
</S:Body>
</S:Envelope>
```

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00135.html>

## setMonitoringProperties

---

Sets the properties for managing orchestration monitoring data.

Applies to Integration Appliances only.

### Parameter:

---

properties

The properties for managing orchestration monitoring data.

Returns:

A list of warning and error messages.

---

#### [Feedback | Notices](#)

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00136.html>

## Lognotif

---

Information about the lognotif WSDL.

Using the lognotif WSDL, you can save, get, and delete notification policies. You can also get and set email and SNMP endpoints, set and get log levels, and get a log count.

This section contains the following topics:

- [createNotificationPolicy](#)
- [deleteNotificationPolicy](#)
- [getEmailEndpoint](#)
- [getLogCount](#)
- [getLogLevel](#)
- [getNotificationPolicies](#)
- [getNotificationPolicy](#)
- [getSnmpEndpoint](#)
- [searchLogs](#)
- [setEmailEndpoint](#)

---

### [Feedback | Notices](#)

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00137.html>

## createNotificationPolicy

---

Creates and saves a notification policy.

Applies to Clouds and Integration Appliances.

### Parameter:

---

policy

The name of the policy.

Returns:

The notification policy ID of the policy was successfully created. If not successful, returns a -1.

### Examples:

---

The following example is a SOAP request to create a notification policy.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
    xmlns:log="http://www.approuter.com/schemas/2008/1/lognotif">  
    <soapenv:Header>  
        <log:sessionId>910D9A7B441C97AC2FCC54E3F1274AA7</log:sessionId>  
    </soapenv:Header>  
    <soapenv:Body>  
        <log:createNotificationPolicy>  
            <log:name>TestNotif</log:name>  
            <log:logComponent>orchestration</log:logComponent>  
            <log:logLevel>error</log:logLevel>  
            <log:emailAddresses>user@mydomain.com</log:emailAddresses>
```

```

<log:isSnmp>false</log:isSnmp>
</log:createNotificationPolicy>
</soapenv:Body>
</soapenv:Envelope>

```

The following example is the SOAP response to the request.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:createNotificationPolicyResponse xmlns:ns2="http://
www.approuter.com/schemas/2008/1/lognotif" xmlns:ns3="http://
www.approuter.com/schemas/2008/1/lognotif/types">
<ns2:policyId>688128</ns2:policyId>
</ns2:createNotificationPolicyResponse>
</S:Body>
</S:Envelope>

```

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## deleteNotificationPolicy

Deletes a notification policy.

Applies to Clouds and Integration Appliances.

### Parameter:

#### policyId

The specified ID for the notification policy to be deleted.

#### Returns:

Success or failure.

### Examples:

The following is a SOAP request to delete the notification policy with the specified ID.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
<ns1:log="http://www.approuter.com/schemas/2008/1/lognotif">
<soapenv:Header>
<log:sessionId>910D9A7B441C97AC2FCC54E3F1274AA7</log:sessionId>
</soapenv:Header>
<soapenv:Body>
<log:deleteNotificationPolicy>
<log:policyId>688128</log:policyId>
</log:deleteNotificationPolicy>
</soapenv:Body>
</soapenv:Envelope>

```

The following is the SOAP response to the request.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:deleteNotificationPolicyResponse xmlns:ns2="http://
www.approuter.com/schemas/2008/1/lognotif" xmlns:ns3="http://
www.approuter.com/schemas/2008/1/lognotif/types">
<ns2:success>true</ns2:success>
</ns2:deleteNotificationPolicyResponse>
</S:Body>
</S:Envelope>

```

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## getEmailEndpoint

---

Gets the email endpoint for notifications based on the session ID.

Applies to Integration Appliances only.

Returns:

The email endpoint.

### Examples:

---

The following example is a SOAP request to get an email endpoint.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:log="http://www.approuter.com/schemas/2008/1/lognotif">
  <soapenv:Header>
    <log:sessionId>910D9A7B441C97AC2FCC54E3F1274AA7</log:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <log:getEmailEndpoint/>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:getEmailEndpointResponse xmlns:ns2="http://www.approuter.com/
      schemas/2008/1/lognotif" xmlns:ns3="http://www.approuter.com/schemas/2008/1/
      lognotif/types">
      <ns2:emailEndpoint>
        <ns3:active>true</ns3:active>
        <ns3:credentials>
          <ns3:password>test</ns3:password>
          <ns3:user>test</ns3:user>
        </ns3:credentials>
        <ns3:host>hq-exch-01</ns3:host>
        <ns3:port>123</ns3:port>
        <ns3:sender>user@mydomain.com</ns3:sender>
        <ns3:subject>Notification</ns3:subject>
      </ns2:emailEndpoint>
    </ns2:getEmailEndpointResponse>
  </S:Body>
</S:Envelope>
```

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## getLogCount

---

Gets the number of logs for the specified parameters.

Applies to Clouds and Integration Appliances.

## Parameters:

---

### logComponent

The specified component for which logs are generated.

### logLevel

The level of logging to be done for the specified component.

### maxDaysOld

The maximum number of days to go back to get logs. Use 1 for no maximum.

### status

The specified status of logs to be included in the count. The default values are:

- All
- Resolved
- Unresolved

Returns:

The number of logs that match the specified parameters.

## Examples:

---

The following example is a SOAP request to get a log count.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:log="http://www.approuter.com/schemas/2008/1/lognotif">
  <soapenv:Header>
    <log:sessionId>910D9A7B441C97AC2FCC54E3F1274AA7</log:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <log:getLogCount>
      <log:logComponent>orchestration</log:logComponent>
      <log:logLevel>error</log:logLevel>
      <log:maxDaysOld>3</log:maxDaysOld>
      <log:status>all</log:status>
    </log:getLogCount>
  </soapenv:Body>
</soapenv:Envelope>
```

The following is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:getLogCountResponse xmlns:ns2="http://www.approuter.com/
    schemas/2008/1/lognotif" xmlns:ns3="http://www.approuter.com/schemas/2008/1/
    lognotif/types">
      <ns2:logCount>8</ns2:logCount>
    </ns2:getLogCountResponse>
  </S:Body>
</S:Envelope>
```

---

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## [getLogLevel](#)

---

Gets the log level for the specified log component.

The default log levels are:

- All. (Note: The actual level of logs retrieved for the All level is determined by the logging level set in the WMC. For more information, see "Specify System Log Settings" in the WMC).
- Fatal
- Severe
- Warning
- Info

Applies to Clouds and Integration Appliances.

## Parameter

---

### logComponent

The specified component for which logs are generated.

Returns:

The log level for the specified component.

## Examples

---

The following example is a SOAP request to get the log level for orchestrations.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:log="http://www.approuter.com/schemas/2008/1/lognotif">
  <soapenv:Header>
    <log:sessionId>AD2E025868AC1392A44E6E27E4594EF9</log:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <log:getLogLevel>
      <log:logComponent>orchestration</log:logComponent>
    </log:getLogLevel>
  </soapenv:Body>
</soapenv:Envelope>
```

The following is the SOAP reply to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns3:getLogLevelResponse xmlns:ns2="http://www.approuter.com/
      schemas/2008/1/lognotif/types" xmlns:ns3="http://www.approuter.com/
      schemas/2008/1/lognotif">
      <ns3:logLevel>warning</ns3:logLevel>
    </ns3:getLogLevelResponse>
  </S:Body>
</S:Envelope>
```

---

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## getNotificationPolicies

---

Gets the notification policies.

Applies to Clouds and Integration Appliances.

Returns:

The notification policies.

## Examples:

---

The following example is a SOAP request to get notification policies.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
xmlns:log="http://www.approuter.com/schemas/2008/1/lognotif">  
  <soapenv:Header>  
    <log:sessionId>910D9A7B441C97AC2FCC54E3F1274AA7</log:sessionId>  
  </soapenv:Header>  
  <soapenv:Body>  
    <log:getNotificationPolicies/>  
  </soapenv:Body>  
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">  
  <S:Body>  
    <ns2:getNotificationPoliciesResponse xmlns:ns2="http://  
    www.approuter.com/schemas/2008/1/lognotif" xmlns:ns3="http://  
    www.approuter.com/schemas/2008/1/lognotif/types">  
      <ns2:notificationPolicies>  
        <emailAddresses>user@mydomain.com</emailAddresses>  
        <id>688129</id>  
        <logComponent>orchestration</logComponent>  
        <logLevel>error</logLevel>  
        <name>TestNotif</name>  
        <snmp>false</snmp>  
      </ns2:notificationPolicies>  
    </ns2:getNotificationPoliciesResponse>  
  </S:Body>  
</S:Envelope>
```

---

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## getNotificationPolicy

---

Gets the notification policy that is using the specified notification policy ID.

Applies to Clouds and Integration Appliances.

### Parameter:

---

policyId

The specified ID for the notification policy.

Returns:

The notification policy.

## Examples:

---

The following example is a SOAP request to get a notification.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
xmlns:log="http://www.approuter.com/schemas/2008/1/lognotif">  
  <soapenv:Header>  
    <log:sessionId>910D9A7B441C97AC2FCC54E3F1274AA7</log:sessionId>  
  </soapenv:Header>  
  <soapenv:Body>  
    <log:getNotificationPolicy>
```

```

<log:policyId>688129</log:policyId>
</log:getNotificationPolicy>
</soapenv:Body>
</soapenv:Envelope>

```

The following example is the SOAP response to the request.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:getNotificationPolicyResponse xmlns:ns2="http://www.approuter.com/
schemas/2008/1/lognotif" xmlns:ns3="http://www.approuter.com/schemas/2008/1/
lognotif/types">
<ns2:notificationPolicy>
<emailAddresses>user@mydomain.com</emailAddresses>
<id>688129</id>
<logComponent>orchestration</logComponent>
<logLevel>error</logLevel>
<name>TestNotif</name>
<snmp>false</snmp>
</ns2:notificationPolicy>
</ns2:getNotificationPolicyResponse>
</S:Body>
</S:Envelope>

```

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## getSnmpEndpoint

Gets the SNMP endpoint for notifications.

Applies to Integration Appliances only.

Returns:

The SNMP endpoint.

### Examples:

The following example is a SOAP request to get an SNMP endpoint.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" 
xmlns:log="http://www.approuter.com/schemas/2008/1/lognotif">
<soapenv:Header>
<log:sessionId>910D9A7B441C97AC2FCC54E3F1274AA7</log:sessionId>
</soapenv:Header>
<soapenv:Body>
<log:getSnmpEndpoint/>
</soapenv:Body>
</soapenv:Envelope>

```

The following example is the SOAP response to the request.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns2:getSnmpEndpointResponse xmlns:ns2="http://www.approuter.com/
schemas/2008/1/lognotif" xmlns:ns3="http://www.approuter.com/schemas/2008/1/
lognotif/types">
<ns2:snmpEndpoint>
<ns3:active>true</ns3:active>
<ns3:community>Test</ns3:community>
<ns3:host>hq-exch-01</ns3:host>
</ns2:snmpEndpoint>
</ns2:getSnmpEndpointResponse>

```

```
</S:Body>
</S:Envelope>
```

---

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## searchLogs

---

Gets the logs for the specified parameters.

Applies to Clouds and Integration Appliances.

### Parameters:

---

#### logComponent

The specified component for which logs are generated. **logComponent** is one of:

- hardware
- resources
- network
- security
- orchestration
- deployment
- all

#### logLevel

The level of logging to be done for the specified component. **logLevel** is one of:

- critical
- error
- warning
- info
- all

#### maxDaysOld

The maximum number of days to go back to get logs. Use -1 for no maximum.

#### status

The specified status of logs to be included in the search. **status** is one of:

- resolved
- unresolved
- all

#### page

Uses 0-based page numbering. Log pagination starts with zero. Maximum size of page should be documented as 2,147,483,647.

#### pageSize

Specifies the size of the log pages that are returned. Maximum size of pageSize should be documented as 2,147,483,647.

#### Returns:

The logs that match the specified parameters.

### Examples:

---

The following example is a SOAP request to search the logs for logs that match the specified parameters.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <ns1:log="http://www.approuter.com/schemas/2008/1/lognotif">
    <soapenv:Header>
      <log:sessionId>AD2E025868AC1392A44E6E27E4594EF9</log:sessionId>
    </soapenv:Header>
    <soapenv:Body>
      <log:searchLogs>
        <log:logComponent>orchestration</log:logComponent>
        <log:logLevel>error</log:logLevel>
        <log:maxDaysOld>6</log:maxDaysOld>
        <log:status>all</log:status>
        <log:page>1</log:page>
        <log:pageSize>5</log:pageSize>
      </log:searchLogs>
    </soapenv:Body>
  </soapenv:Envelope>

```

The following example is the SOAP reply to the request.

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns3:searchLogsResponse xmlns:ns2="http://www.approuter.com/
    schemas/2008/1/lognotif/types" xmlns:ns3="http://www.approuter.com/
    schemas/2008/1/lognotif">
      <ns3:logs>
        <ns2:system>orchestration</ns2:system>
        <ns2:message>Internal error: java.lang.RuntimeException: Could
        not create the module activity: invoke for module http://www.approuter.com/
        module/jde/: com.approuter.maestro.sdk.mpi.ActivityCreationException: Not able
        to connect to gateway</ns2:message>
        <ns2:id>10157</ns2:id>
        <ns2:level>error</ns2:level>
        <ns2:timestamp>2010-04-07T09:03:30.155Z</ns2:timestamp>
      </ns3:logs>
      <ns3:logs>
        <ns2:system>orchestration</ns2:system>
        <ns2:message>Unable to compile the orchestration config-url://
        JDE_TestCase_101/3.2/Default/Orchestrations/Orchestration</ns2:message>
        <ns2:id>10156</ns2:id>
        <ns2:level>error</ns2:level>
        <ns2:timestamp>2010-04-07T09:03:29.124Z</ns2:timestamp>
      </ns3:logs>
      <ns3:logs>
        <ns2:system>orchestration</ns2:system>
        <ns2:message>Error while trying to call remote operation connect
        on gateway for activity com.approuter.module.jde.activity.JdeInvoke and
        Secure Connector 2133, error is The Secure Connector name: 2133 is not
        correct. Please specify the right agent name</ns2:message>
        <ns2:id>10155</ns2:id>
        <ns2:level>error</ns2:level>
        <ns2:timestamp>2010-04-07T09:03:29.110Z</ns2:timestamp>
      </ns3:logs>
      <ns3:logs>
        <ns2:system>orchestration</ns2:system>
        <ns2:message>Undeploy of Orchestration config-url://
        JDE_TestCase_101/3.2/Default/Orchestrations/Orchestration failed:
        Orchestration not deployed: config-url://JDE_TestCase_101/3.2/Default/
        Orchestrations/Orchestration.</ns2:message>
        <ns2:id>10153</ns2:id>
        <ns2:level>error</ns2:level>
        <ns2:timestamp>2010-04-07T08:48:30.078Z</ns2:timestamp>
      </ns3:logs>
      <ns3:logs>
        <ns2:system>orchestration</ns2:system>
        <ns2:message>Orchestration not deployed: config-url://
        JDE_TestCase_101/3.2/Default/Orchestrations/Orchestration</ns2:message>
        <ns2:id>10152</ns2:id>
        <ns2:level>error</ns2:level>
        <ns2:timestamp>2010-04-07T08:48:29.059Z</ns2:timestamp>
      </ns3:logs>
    </ns3:searchLogsResponse>
  </S:Body>
</S:Envelope>

```

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## setEmailEndpoint

---

Sets the email endpoint for notifications.

Applies to Integration Appliances only.

### Parameter:

---

**emailEndpoint**  
The email endpoint.

Returns:  
Success or failure.

### Examples:

---

The following example is a SOAP request to set an email endpoint.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:log="http://www.approuter.com/schemas/2008/1/lognotif" xmlns:typ="http://www.approuter.com/schemas/2008/1/lognotif/types">
  <soapenv:Header>
    <log:sessionId>910D9A7B441C97AC2FCC54E3F1274AA7</log:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <log:setEmailEndpoint>
      <log:emailEndpoint>
        <typ:active>true</typ:active>
        <typ:credentials>
          <typ:password>test</typ:password>
          <typ:user>test</typ:user>
        </typ:credentials>
        <typ:host>hq-exch-01</typ:host>
        <typ:port>123</typ:port>
        <typ:sender>user@mydomain.com</typ:sender>
        <typ:subject>Notification</typ:subject>
      </log:emailEndpoint>
    </log:setEmailEndpoint>
  </soapenv:Body>
</soapenv:Envelope>
```

The following is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:setEmailEndpointResponse xmlns:ns2="http://www.approuter.com/schemas/2008/1/lognotif" xmlns:ns3="http://www.approuter.com/schemas/2008/1/lognotif/types">
      <ns2:success>true</ns2:success>
    </ns2:setEmailEndpointResponse>
  </S:Body>
</S:Envelope>
```

## System

---

Information about the system WSDL.

The system WSDL applies to Integration Appliances only. Using system WSDL you can set or get an appliance name or network configuration. You can also run system commands or get system information.

This section contains the following topics:

- [downloadPostmortem](#)
- [executeCommand](#)
- [getApplianceName](#)
- [getNetworkConfiguration](#)
- [getResourceUtilizationData](#)
- [setApplianceName](#)
- [setNetworkConfiguration](#)

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## downloadPostmortem

---

Downloads the postmortem file.

Use the information in this file to resolve Integration Appliance issues.

Applies to Integration Appliances only.

Returns:

The postmortem file.

---

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## executeCommand

---

Runs the specified system command.

Applies to Integration Appliances only.

### Parameter:

---

command

The specified system command to run.

Returns:

Success or failure.

## Enums:

---

The system commands are defined as enumerated constants.

The following table lists the system commands.

Command	Description
removeJobHistory	Removes job histories from the Integration Appliance.
removeProjects	Removes projects from the Integration Appliance.
removeRunningJobs	Stops and removes running jobs from the Integration Appliance.
generatePostmortem	Generates an archive of information gathered from Integration Appliance logs, orchestration logs, and transaction stores. Use this information to debug Integration Appliance issues. Run this command before rebooting the Integration Appliance.
restart	Restarts the Integration Appliance routing subsystem.
reboot	Shuts down all routing services and then reboots the Integration Appliance.

---

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## getApplianceName

---

Gets the appliance name.

Applies to Integration Appliances only.

Returns:

The appliance name.

## Examples:

---

The following code is an example of a SOAP request to get the Integration Appliance name.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sys="http://www.approuter.com/schemas/2008/1/system">
  <soapenv:Header>
    <sys:sessionId>91997FBCE89093792D40DEF8FDB345DD</sys:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sys:getApplianceName/>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
  <ns3:getApplianceNameResponse xmlns:ns2="http://www.approuter.com/schemas/router/1000/NetConfig02.xsd" xmlns:ns3="http://www.approuter.com/schemas/2008/1/system" xmlns:ns4="http://www.approuter.com/schemas/2008/1/
```

```
util/types">
<ns3:applianceName>TheIntegrator</ns3:applianceName>
</ns3:getApplianceNameResponse>
</S:Body>
</S:Envelope>
```

---

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## getNetworkConfiguration

---

Returns the status of the current network configuration.

Applies to Integration Appliances only.

Returns:

The network status.

### Examples:

---

The following code is an example of a SOAP request to get the network configuration.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sys="http://www.approuter.com/schemas/2008/1/system">
<soapenv:Header>
<sys:sessionId>91997FBCE89093792D40DEF8FDB345DD</sys:sessionId>
</soapenv:Header>
<soapenv:Body>
<sys:getNetworkConfiguration/>
</soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<ns3:getNetworkConfigurationResponse xmlns:ns2="http://www.approuter.com/schemas/router/1000/NetConfig02.xsd"
xmlns:ns3="http://www.approuter.com/schemas/2008/1/system"
xmlns:ns4="http://www.approuter.com/schemas/2008/1/util/types">
<ns3:networkStatus>
<ns2:active>true</ns2:active>
<ns2:carrierTimeout>30</ns2:carrierTimeout>
<ns2:emgmt active="true">
<ns2:ipaddr>10.10.60.23</ns2:ipaddr>
<ns2:netmask>255.255.255.0</ns2:netmask>
<ns2:broadcast>10.10.60.255</ns2:broadcast>
<ns2:MACaddr>00:04:23:cd:e8:b5</ns2:MACaddr>
<ns2:fromDhcp>true</ns2:fromDhcp>
<ns2:leaseExp>Sat Apr 24 05:33:10 2010 GMT</ns2:leaseExp>
<ns2:isVirtual>false</ns2:isVirtual>
<ns2:linkInfoValid>true</ns2:linkInfoValid>
<ns2:autoNegotiate>true</ns2:autoNegotiate>
<ns2:speed>1000</ns2:speed>
<ns2:fullDuplex>true</ns2:fullDuplex>
</ns2:emgmt>
<ns2:edata active="true">
<ns2:ipaddr>10.10.50.23</ns2:ipaddr>
<ns2:netmask>255.255.255.0</ns2:netmask>
<ns2:broadcast>10.10.50.255</ns2:broadcast>
<ns2:MACaddr>00:04:23:cd:e9:d9</ns2:MACaddr>
<ns2:fromDhcp>true</ns2:fromDhcp>
<ns2:leaseExp>Sat Apr 24 05:33:14 2010 GMT</ns2:leaseExp>
```

```

<ns2:isVirtual>false</ns2:isVirtual>
<ns2:linkInfoValid>true</ns2:linkInfoValid>
<ns2:autoNegotiate>true</ns2:autoNegotiate>
<ns2:speed>1000</ns2:speed>
<ns2:fullDuplex>true</ns2:fullDuplex>
</ns2:edata>
<ns2:gateway>
<ns2:value>10.10.70.3</ns2:value>
<ns2:fromDhcp>true</ns2:fromDhcp>
<ns2:dhcpSource>emgmt</ns2:dhcpSource>
</ns2:gateway>
<ns2:hostname>
<ns2:value>myhost</ns2:value>
<ns2:fromDhcp>true</ns2:fromDhcp>
<ns2:dhcpSource>emgmt</ns2:dhcpSource>
</ns2:hostname>
<ns2:domain>
<ns2:value>mycompany.com</ns2:value>
<ns2:fromDhcp>true</ns2:fromDhcp>
<ns2:dhcpSource>emgmt</ns2:dhcpSource>
</ns2:domain>
<ns2:search>
<ns2:value>mycompany.com mycompany.corp</ns2:value>
<ns2:fromDhcp>true</ns2:fromDhcp>
<ns2:dhcpSource>emgmt</ns2:dhcpSource>
</ns2:search>
<ns2:dns>
<ns2:value>10.10.20.21 10.10.10.15</ns2:value>
<ns2:fromDhcp>true</ns2:fromDhcp>
<ns2:dhcpSource>emgmt</ns2:dhcpSource>
</ns2:dns>
<ns2:ntp>
<ns2:value>10.10.20.21</ns2:value>
<ns2:fromDhcp>true</ns2:fromDhcp>
<ns2:dhcpSource>emgmt</ns2:dhcpSource>
</ns2:ntp>
<ns2:routes/>
<ns2:httpProxy>
<ns2:host/>
<ns2:port/>
<ns2:user/>
<ns2:passwd/>
<ns2:enabled>false</ns2:enabled>
</ns2:httpProxy>
<ns2:ftpProxy>
<ns2:host/>
<ns2:port/>
<ns2:user/>
<ns2:passwd/>
<ns2:enabled>false</ns2:enabled>
</ns2:ftpProxy>
<ns2:sftpProxy>
<ns2:host/>
<ns2:port/>
<ns2:user/>
<ns2:passwd/>
<ns2:enabled>false</ns2:enabled>
</ns2:sftpProxy>
<ns2:history>
<ns2:startAttempt>Fri Apr 23 17:33:07 2010 GMT</
ns2:startAttempt>
<ns2:started>Fri Apr 23 17:33:15 2010 GMT</ns2:started>
<ns2:stopped/>
<ns2:stopReason/>
<ns2:current>Monitoring network</ns2:current>
</ns2:history>
</ns3:networkStatus>
</ns3:getNetworkConfigurationResponse>
</S:Body>
</S:Envelope>

```

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00152.html>

## getResourceUtilizationData

---

Gets the resource utilization data for the given appliance.

Applies to Integration Appliances only.

Returns:

Appliance resource utilization data.

### Examples:

---

The following code is an example of a SOAP request to get the Integration Appliance resource utilization data.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sys="http://www.approuter.com/schemas/2008/1/system">
  <soapenv:Header>
    <sys:sessionId>9705D42CDA8D28BA04CEBAB3D9C44B5A</sys:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sys:getResourceUtilizationData/>
  </soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:getResourceUtilizationDataResponse xmlns:ns4="http://www.approuter.com/schemas/router/1000/NetConfig02.xsd" xmlns:ns3="http://www.approuter.com/schemas/2008/1/util/types" xmlns:ns2="http://www.approuter.com/schemas/2008/1/system">
      <ns2:applianceUtilization>
        <diskPercentUsed>6</diskPercentUsed>
        <usedMemory>35813024</usedMemory>
        <maxMemory>1509949440</maxMemory>
        <collectionCount>1</collectionCount>
        <totalRunningJobs>0</totalRunningJobs>
        <time>
          <ns3:offset>0</ns3:offset>
          <ns3:time>1379634870597</ns3:time>
        </time>
      </ns2:applianceUtilization>
    </ns2:getResourceUtilizationDataResponse>
  </S:Body>
</S:Envelope>
```

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## setApplianceName

---

Sets the appliance name.

Applies to Integration Appliances only.

## Parameter:

---

applianceName  
The specified name for the appliance.

Returns:  
Success or failure.

## Examples:

---

The following code is an example of a SOAP request to the Integration Appliance name.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
    xmlns:sys="http://www.approuter.com/schemas/2008/1/system">  
    <soapenv:Header>  
        <sys:sessionId>91997FBCE89093792D40DEF8FDB345DD</sys:sessionId>  
    </soapenv:Header>  
    <soapenv:Body>  
        <sys:setApplianceName>  
            <sys:applianceName>TheIntegrator</sys:applianceName>  
        </sys:setApplianceName>  
    </soapenv:Body>  
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">  
    <S:Body>  
        <ns3:setApplianceNameResponse xmlns:ns2="http://www.approuter.com/  
            schemas/router/1000/NetConfig02.xsd"  
            xmlns:ns3="http://www.approuter.com/schemas/2008/1/system"  
            xmlns:ns4="http://www.approuter.com/schemas/2008/1/util/types">  
            <ns3:success>true</ns3:success>  
        </ns3:setApplianceNameResponse>  
    </S:Body>  
</S:Envelope>
```

---

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## setNetworkConfiguration

---

Sets the current network configuration.

Applies to Integration Appliances only.

Returns:  
Success or failure.

## Example:

---

The following code is an example of a SOAP request to set the network configuration for an Integration Appliance. Enter the values for your network and appliance.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
    xmlns:sys="http://www.approuter.com/schemas/2008/1/system"  
    xmlns:net="http://www.approuter.com/schemas/router/1000/  
        NetConfig02.xsd">  
    <soapenv:Header>
```

```
<sys:sessionId>?</sys:sessionId>
</soapenv:Header>
<soapenv:Body>
<sys:setNetworkConfiguration>
<sys:networkType>
<net:emgmt>
<net:fallback>
<net:ipaddr>?</net:ipaddr>
<net:netmask>?</net:netmask>
<net:broadcast>?</net:broadcast>
</net:fallback>
<net:manual>
<net:ipaddr>?</net:ipaddr>
<net:netmask>?</net:netmask>
<net:broadcast>?</net:broadcast>
</net:manual>
<net:useDhcp>?</net:useDhcp>
<net:useDhcpRoutes>?</net:useDhcpRoutes>
<net:autoNegotiate>?</net:autoNegotiate>
<net:speed>?</net:speed>
<net:fullDuplex>?</net:fullDuplex>
</net:emgmt>
<net:edata>
<net:fallback>
<net:ipaddr>?</net:ipaddr>
<net:netmask>?</net:netmask>
<net:broadcast>?</net:broadcast>
</net:fallback>
<net:manual>
<net:ipaddr>?</net:ipaddr>
<net:netmask>?</net:netmask>
<net:broadcast>?</net:broadcast>
</net:manual>
<net:useDhcp>?</net:useDhcp>
<net:useDhcpRoutes>?</net:useDhcpRoutes>
<net:autoNegotiate>?</net:autoNegotiate>
<net:speed>?</net:speed>
<net:fullDuplex>?</net:fullDuplex>
</net:edata>
<net:gateway>
<net:useDhcp>?</net:useDhcp>
<net:dhcpSource>?</net:dhcpSource>
<net:manual>?</net:manual>
<net:fallback>?</net:fallback>
</net:gateway>
<net:hostname>
<net:useDhcp>?</net:useDhcp>
<net:dhcpSource>?</net:dhcpSource>
<net:manual>?</net:manual>
<net:fallback>?</net:fallback>
</net:hostname>
<net:domain>
<net:useDhcp>?</net:useDhcp>
<net:dhcpSource>?</net:dhcpSource>
<net:manual>?</net:manual>
<net:fallback>?</net:fallback>
</net:domain>
<net:search>
<net:useDhcp>?</net:useDhcp>
<net:dhcpSource>?</net:dhcpSource>
<net:manual>?</net:manual>
<net:fallback>?</net:fallback>
</net:search>
<net:dns>
<net:useDhcp>?</net:useDhcp>
<net:dhcpSource>?</net:dhcpSource>
<net:manual>?</net:manual>
<net:fallback>?</net:fallback>
</net:dns>
<net:ntp>
<net:useDhcp>?</net:useDhcp>
<net:dhcpSource>?</net:dhcpSource>
<net:manual>?</net:manual>
<net:fallback>?</net:fallback>
</net:ntp>
<net:routes>
```

```

<!--Zero or more repetitions:-->
<net:route>
  <net:destination>?</net:destination>
  <net:netmask>?</net:netmask>
  <net:router>?</net:router>
  <net:interface>?</net:interface>
</net:route>
</net:routes>
<net:httpProxy>
  <net:host>?</net:host>
  <net:port>?</net:port>
  <net:user>?</net:user>
  <net:passwd>?</net:passwd>
  <net:enabled>?</net:enabled>
  <net:passwdEncoding>?</net:passwdEncoding>
</net:httpProxy>
<net:ftpProxy>
  <net:host>?</net:host>
  <net:port>?</net:port>
  <net:user>?</net:user>
  <net:passwd>?</net:passwd>
  <net:enabled>?</net:enabled>
  <net:passwdEncoding>?</net:passwdEncoding>
</net:ftpProxy>
<net:sftpProxy>
  <net:host>?</net:host>
  <net:port>?</net:port>
  <net:user>?</net:user>
  <net:passwd>?</net:passwd>
  <net:enabled>?</net:enabled>
  <net:passwdEncoding>?</net:passwdEncoding>
</net:sftpProxy>
<net:carrierTimeout>?</net:carrierTimeout>
<net:enabled>?</net:enabled>
</sys:networkType>
</sys:setNetworkConfiguration>
</soapenv:Body>
</soapenv:Envelope>

```

---

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## Staging

---

Information about the staging WSDL.

The staging WSDL applies to Integration Appliances only. Using the staging WSDL, you can check whether the staging database is started. You can start or stop the staging database.

This section contains the following topics:

- [isStagingDatabaseStarted](#)
- [startStagingDatabase](#)
- [stopStagingDatabase](#)

---

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## isStagingDatabaseStarted

---

Returns whether the staging database is started (True or False).

Applies to Integration Appliances only.

Returns:

True if the staging database is started.

### Examples:

---

The following code is an example of a SOAP request to check if the staging database is started.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
    xmlns:stag="http://www.approuter.com/schemas/2008/1/staging">  
    <soapenv:Header>  
        <stag:sessionId>91997FBCE89093792D40DEF8FDB345DD</stag:sessionId>  
    </soapenv:Header>  
    <soapenv:Body>  
        <stag:isStagingDatabaseStarted/>  
    </soapenv:Body>  
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">  
    <S:Body>  
        <isStagingDatabaseStartedResponse xmlns="http://www.approuter.com/  
            schemas/2008/1/staging">  
            <isStarted>true</isStarted>  
        </isStagingDatabaseStartedResponse>  
    </S:Body>  
</S:Envelope>
```

---

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## startStagingDatabase

---

Starts the staging database. Returns success if the database starts or failure if the database fails to start.

Applies to Integration Appliances only.

Returns:

Success or failure.

### Examples:

---

The following code is an example of a SOAP request to start the staging database.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"  
    xmlns:stag="http://www.approuter.com/schemas/2008/1/staging">  
    <soapenv:Header>  
        <stag:sessionId>91997FBCE89093792D40DEF8FDB345DD</stag:sessionId>  
    </soapenv:Header>  
    <soapenv:Body>
```

```
<stag:startStagingDatabase/>
</soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<startStagingDatabaseResponse xmlns="http://www.approuter.com/
schemas/2008/1/staging">
<success>true</success>
</startStagingDatabaseResponse>
</S:Body>
</S:Envelope>
```

---

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## stopStagingDatabase

---

Stops the staging database. Returns success if the database stops or failure if the database fails to stop.

Applies to Integration Appliances only.

Returns:

Success or failure.

### Examples:

---

The following code is an example of a SOAP request to stop the staging database.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" 
xmlns:stag="http://www.approuter.com/schemas/2008/1/staging">
<soapenv:Header>
<stag:sessionId>91997FBCE89093792D40DEF8FDB345DD</stag:sessionId>
</soapenv:Header>
<soapenv:Body>
<stag:stopStagingDatabase/>
</soapenv:Body>
</soapenv:Envelope>
```

The following example is the SOAP response to the request.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
<stopStagingDatabaseResponse xmlns="http://www.approuter.com/
schemas/2008/1/staging">
<success>true</success>
</stopStagingDatabaseResponse>
</S:Body>
</S:Envelope>
```

---

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# Introduction

---

The IBM® Cast Iron® Connector Development Kit (CDK) Developer's Guide is for developers who want to use the Cast Iron Studio (Studio) development platform to develop and deploy plug-in connectors that extract data from application systems or other data sources..

Connectors enhance the core functionality of Studio by exposing the API of an external application to the Cast Iron development platform. API's extend the scripting engine with new libraries and object types and publishes notification events from the external system to a Cast Iron physical or virtual integration appliance. Cast Iron appliances support connecting to endpoints of many types including FTP, SFTP, HTTP, HTTPS, Email (SMTP, POP), SAP, MQ, Web Services and many commercial database systems.

Each connector has an associated XML descriptor file that allows the connector to be used in Studio at design time. XML schema definition (XSD) files define the elements and attributes of the XML file.

The Cast Iron development platform features a CDK Connector Wizard that guides you through the development process. Studio provides an intuitive drag-and-drop interface that can dramatically shorten your development time.

This guide provides an overview of connectors, introduces the Cast Iron development platform components and supplies the step-by-step procedures you require to develop and deploy your own connectors.

## Prerequisites

---

Much of the work involved in developing a connector takes place inside Studio, meaning that you should have a working knowledge of Studio and the Cast Iron products. You should also be familiar with the following languages and file formats:

- Extensible Markup Language (XML)
- Web Services Description Language (WSDL)
- Extensible Stylesheet Language Transformations (XSLT)

Note: For many activities, Studio supports a "discovery" process to determine the structure of parameters sent to, or received from an endpoint. If your input activity will be discovered at design time, you must utilize an abstract WSDL or schema element type.

Declaring an element as abstract requires the use of a substitution group. If an abstract version is not available, you must modify your WSDL file or schema. Your abstract file is then substituted for the actual data type at design time. For more information on abstract files, see [Using the Add Activities window](#).

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk\\_intro.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk_intro.html)

## Design considerations

---

The recent explosive growth of application-oriented software delivered as a service over the Web makes implementing effective guidelines for your project critically important. Careful planning of design activities can help ensure the success of your project.

Before you start your development, carefully consider the following guidelines:

- Task and user analysis - Consider what tasks you want to your end-users to perform before you start your project. Using the elements supplied by your schema files and the configuration properties of your XML file, you can control the level of access your users have to Studio and its functions. For example, by defining an endpoint for your users, you can limit or increase the number of activities they can add to their orchestrations. It's also important to understand *how* your end-users perform their tasks. Providing them with information in the order they are likely to require it will help your project integrate smoothly and will result in a unified user experience.
- Naming conventions - Sometimes, when working on a project with tight deadlines, it's tempting to label the components of an application hurriedly. For example, when designing your endpoint panel, you may be inclined to define a 'type' field quickly so that you can move on to more important functional tasks. However, the benefits of intuitive naming practices are often not evident until later, when users are confronted with arbitrary and confusing naming schemes. Remember, once deployed, your connector will be used again and again, so be sure to utilize logical, consistent and intuitive naming conventions.

## Before you begin

---

Before you begin your project, collect the following information. Having it accessible will make your development process go more smoothly:

- Connection fields - Be prepared to specify the connection field details you'll need to connect to your endpoints, such as name and type.
- Input activities - Determine which of your input activities will be discovered dynamically at design time and which will be static.
- Input and output data types - Be prepared to indicate which input and output data types will be supported by each of your activities.

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## How this guide is organized

---

This document is designed to get you started on your development project with a minimum of delay. Chapter One introduces the CDK Connector Wizard and provides the procedures you need to get your project underway. However, if you prefer to familiarize yourself with the CDK development platform before starting your development, take a few minutes to review the information in Chapter Four [CDK Components](#) before you begin.

This guide is organized into the following sections.

- [Getting started with the CDK Connector Wizard](#)

Introduces the CDK Connector Wizard and provides step-by-step instructions for building your connector.

- [Test and debug](#)

Provides procedures for testing and debugging your connector.

- [Exporting and importing a connector project](#)

Provides information on how to export or import connector projects.

- [Cast Iron CDK components](#)

Provides an overview of the Studio development platform and introduces the CDK components.

- [FAQ](#)

Provides some answers to frequently asked questions.

- [Getting help](#)

Provides information on IBM resources and tells you how to get help.

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# Getting started with the CDK Connector Wizard

The CDK Connector Wizard guides you through the development process by presenting you with a series of three windows into which you enter basic details about your connector. The Wizard then generates orchestrations that you can test, certify and deploy to Studio.

## Procedure

1. Start Studio.
2. Select **File -> New Connector Project**.

## Results

The Wizard opens in the Studio workspace and the Connector Information window is displayed.

## What to do next

In the next phase, you work with the Connector Information window to add basic information about your connector.

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## Connector Information window

During this phase, you add general information about your connector, such as name, version and description into the Connector Information window and add the WSDL or schema file that is used for your connector activity.

## About this task

The Connector Information window is where you enter basic details about your connector project. The Connector Information window looks like:

Figure 1. Connector Information window

The screenshot shows the 'Connector Information' window. At the top, there's a yellow box labeled 'Provide Connector Name, Version and Description'. Below it, another yellow box labeled 'Provide Basic Connector Detail' contains fields for 'Name' (SampleSalesforceConnector) and 'Version' (1.0.0). To the right of these fields is a 'Description' box containing 'Salesforce sample connector'. A large orange arrow points from the 'Provide Basic Connector Detail' box down to the 'Add WSDL Or Schema Files' section. This section includes a 'Add WSDL/Schema' input field with the value '/WSDLs/SalesforceNew' and a 'Browse' button. An orange box at the bottom labeled 'Add Schema or WSDL file' has an orange arrow pointing up towards the 'Add WSDL/Schema' field.

## Procedure

1. In the Name text field, enter a name for your connector.  
Note: Due to the practical restrictions of NCName, characters in the Name text field cannot contain symbol characters such as :, @, \$, %, &, /, +, ., ;, whitespace characters or different parenthesis. Additionally, characters in the Name text field cannot begin with a number, dot or minus character although they can appear later in an NCName.
2. In the Description text field, enter a description for your connector.
3. In the Version text field, enter a version number for your connector.
4. To add a WSDL or a schema file, click on the **Browse** button and navigate to the file you want. The selected file displays in the Add WSDL/Schema Files field.  
Note: If your input activity will be discovered dynamically at design time, you must provide a WSDL or schema containing an abstract type for this step. For information on abstract files, see [Using the Add Activities window](#).
5. Click **Next**.

## Results

The Add Connection Fields window is displayed.

## What to do next

In the next phase, you work with the Add Connection Fields window to specify endpoint connection properties.

[Feedback | Notices](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk\\_connectinfowindow.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk_connectinfowindow.html)

## Using the Add Connection Fields window

The Add Connection Fields window is where you specify the endpoint connection parameters that are exposed to your users. Your users will use these values to connect to their endpoints.

## About this task

During this design phase, you add the connection fields and corresponding details needed to connect to endpoints. The Add Connection Fields window looks like:

Figure 1. Add Connection Fields window

The screenshot shows the 'Add Connection Fields' window. At the top, a header reads 'Add Connection Fields' and a sub-instruction says 'Provide the Endpoint Connection Fields - These fields are used to connect to the endpoint'. Below this is a table titled 'Add Endpoint Connection Fields' with two rows: 'UserName' and 'Password'. A tooltip above the table says 'Double-click table cell to edit the Connection Field Name. Press ENTER to complete editing.' To the right of the table is a vertical toolbar with a '+' icon for adding new fields and a 'X' icon for deleting existing ones. A tooltip for this toolbar says 'Add/Delete endpoint connection fields.' Below the table, there's a section titled 'Endpoint Connection Fields Details' containing fields for 'Name' (set to 'UserName'), 'Format' (set to 'STRING'), 'Type' (set to 'STRING'), and 'Field Constraints' with a checked 'Enable Constraints' checkbox. Below these are input fields for 'ValueMinLength' (0), 'FieldMinRange' (0), 'ValueMaxLength' (250), and 'FieldMaxRange' (250). A large red box at the bottom right of the window contains the instruction 'Provide details for the fields selected in the table shown above.'

## Procedure

---

1. Click the **plus icon (+)**. A blank connection field is displayed in the Add Endpoint Connection Fields panel.
2. In the Add Endpoint Connection Fields panel, enter the field type, for example: Password, to specify the password associated with a username. To begin editing, double click on a row in the Connection Field Name cell to activate it, then enter your information. When you are done, press **Enter**. The field type information is displayed in the Name field.
3. In the Endpoint Connection Fields Details panel, click on the **Type** and **Format** drop-down menus and select the categories that correspond to the information you entered in the Add Endpoint Connection Fields panel. In the Add Endpoint Connection Fields panel, enter the field type, for example: Password, to specify the password associated with a username.
4. Repeat these steps to add additional connection fields. After you have added the additional fields, click **Next**.

## Results

---

The Add Activities window is displayed.

## What to do next

---

In the next phase, you work with the Add Activities window to define your connector activities.

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk\\_addconnectfieldswindow.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk_addconnectfieldswindow.html)

## Using the Add Activities window

---

The Add Activities window is where you create and define your connector activities and enter input and output data information.

## About this task

---

During this phase, you specify if your input data will be discovered statically or dynamically at design time. For example, if your data will be discovered at design time, a **Create** activity can be used to create different object types such as Account, Contact or User. The input to the **Create** activity will vary depending on which object you want to create. In this situation, **Create** is considered to be a *browseable* activity, where input differs depending on the object you want to generate.

Note: If you want your input activity to be discoverable at design time, you must provide an abstract WSDL or schema type. An abstract WSDL or schema type describes web services in implementation-neutral terms, as opposed to a concrete WSDL or schema type that defines how an endpoint implementing a service is exposed on a network. [Figure 1](#) shows an example of a WSDL with an abstract type definition:

Figure 1. WSDL with abstract definition

```

<DescribeObjectResponse baseType="sObject"
    baseTypeNS="urn:sobject.partner.soap.sforce.com" name="sObject"
    typeNS="urn:sobject.enterprise.soap.sforce.com" xmlns="http://www.approuter.com/schemas/cdk/api/"
    xmlns:con="http://www.approuter.com/schemas/cdk/config/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <object label="result" maxCount="1" minCount="1" name="result"
        used="true">
        <con:field configurable="true" label="StreetNumber"
            maxCount="1" minCount="1" name="StreetNumber" used="true">
            <con:type>string</con:type>
        </con:field>
        <con:field configurable="true" label="StreetName" maxCount="1"
            minCount="1" name="StreetName" used="true">
            <con:type>string</con:type>
        </con:field>
        <con:field configurable="true" label="Zip" maxCount="1"
            minCount="1" name="Zip" used="true">
            <con:type>string</con:type>
        </con:field>

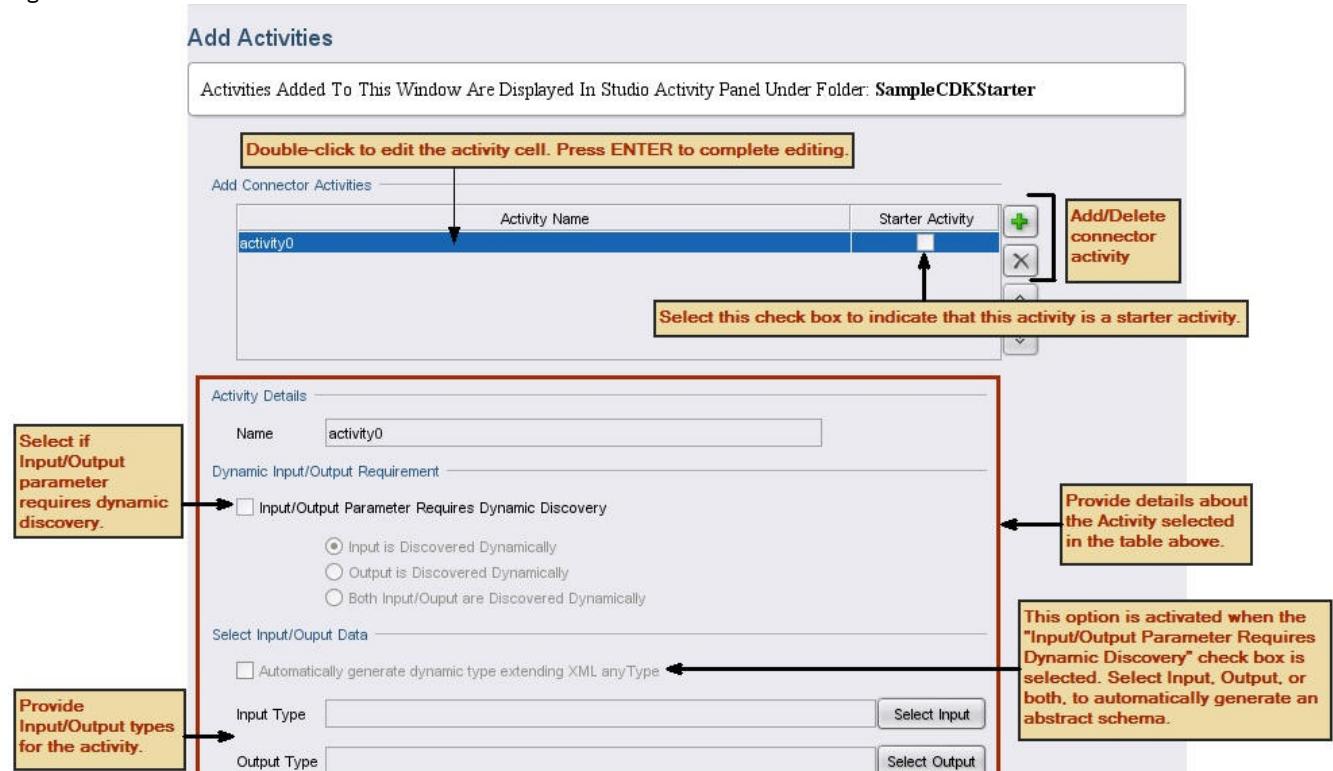
        <con:field configurable="true" label="Id" maxCount="1"
            minCount="1" name="Id" used="true">
            <con:type>boolean</con:type>
        </con:field>
    </object>
    <responseObject label="result" maxCount="1" minCount="1"
        name="result" used="true">
        <con:field configurable="true" label="AccountNumber"
            maxCount="1" minCount="1" name="AccountNumber" used="true">
            <con:type>string</con:type>
        </con:field>
        <con:field configurable="true" label="Name" maxCount="1"
            minCount="1" name="Name" used="true">
            <con:type>string</con:type>
        </con:field>
        <con:field configurable="true" label="#Website" maxCount="1"
            minCount="1" name="#Website" used="true">
            <con:type>string</con:type>
        </con:field>

        <con:field configurable="true" label="Id" maxCount="1"
            minCount="1" name="Id" used="true">
            <con:type>boolean</con:type>
        </con:field>
    </responseObject>
</DescribeObjectResponse>

```

The Add Activities window looks like:

Figure 2. Add Activities window



## Procedure

---

1. Click the **plus (+) icon**. A blank text field is displayed in the Add Connector Activities panel.
2. In the Add Connector Activities panel, add the new activity name. To begin editing, double click on a row in the Activity Name cell to activate it, then enter your information. When you are done, press **Enter**.  
Note: Due to the practical restrictions of NCName, characters in the Name text field cannot contain symbol characters such as :, @, \$, %, &, /, +, ,; whitespace characters or different parenthesis. Additionally, characters in the Name text field cannot begin with a number, dot or minus character although they can appear later in an NCName.
3. In the Add Connector Activities panel, select the Starter Activity check box to indicate if the selected activity is a starter activity.
4. In the Dynamic Input/Output Requirement panel, specify if the input parameter, output parameter or both require dynamic discovery. If you want your input activity to be discoverable at design time, you must provide an abstract schema type.
5. If a parameter or parameters require dynamic discovery, in the Select Input/Output Data panel, use the **Select Input** or **Select Output** buttons to select input and/or output data for each activity. **Note:** Do not assign a specific input data type to more than one activity.  
Note: Starter Activity only has output types. Therefore, you are allowed to select only the Output Type in the Activity Details section.
6. Repeat these steps for each new activity.
7. When you are done, click **Next**.

## Results

---

The Final Summary window is displayed.

### What to do next

---

View your results in the Final Summary window.

---

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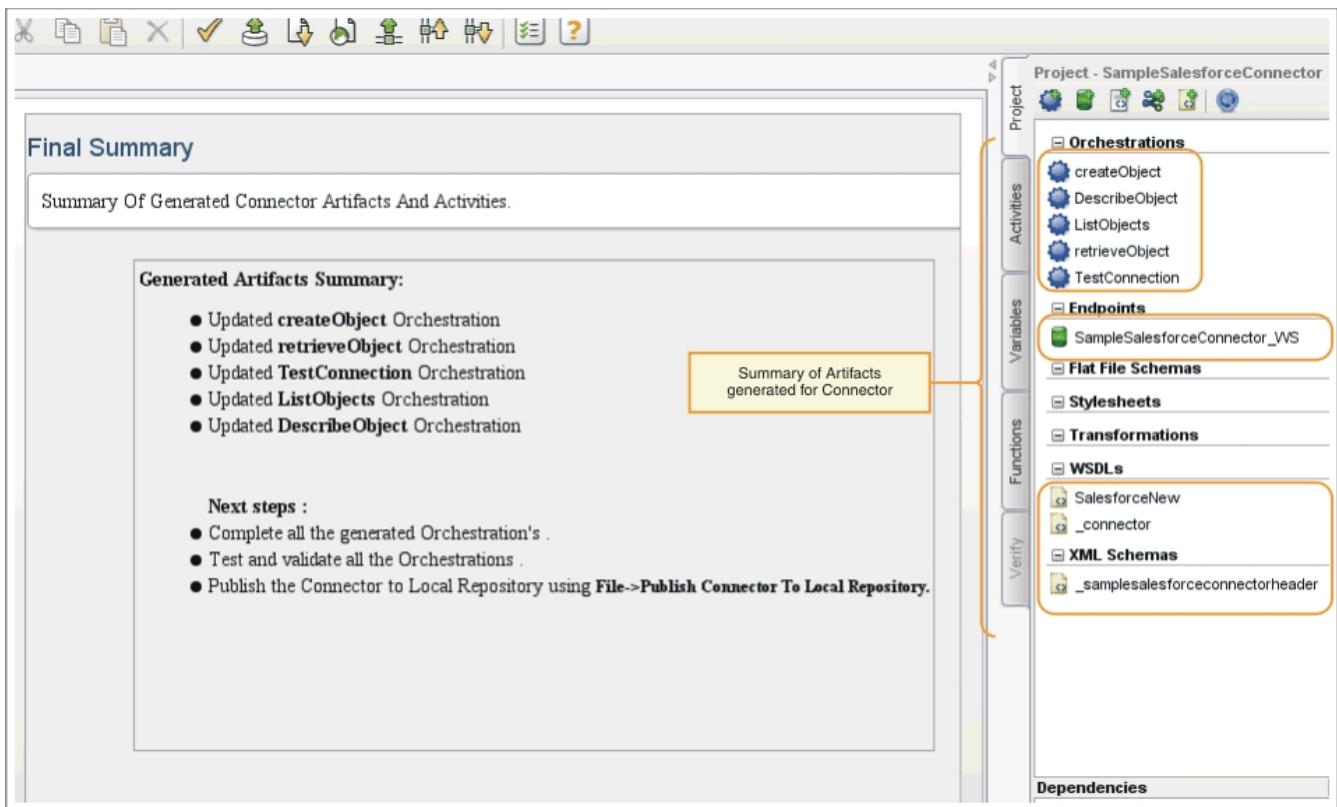
## Final Summary window

---

At the conclusion of the development phase, the Final Summary window alerts you that you're ready to complete the generated orchestrations and export the project to a connector repository.

The Final Summary window confirms that your connector activities have been generated successfully. The Final Summary window looks like:

Figure 1. Final Summary window



## Feedback | Notices

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk\\_finalsummary.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk_finalsummary.html)

## Completing your orchestrations

You complete your orchestrations so you can export them into Studio. In addition to your connector orchestrations, you must also complete orchestrations for the Cast Iron connector interfaces.

### About this task

After your development work is complete, perform the following procedure to complete your connector orchestrations. In [Cast Iron connector interfaces](#) you are introduced to the Cast Iron TestConnection, ListObjects and DescribeObjects connector interfaces and provided with procedures for completing orchestrations for each.

In the steps that follow, you complete your connector orchestrations by reading input data from the Web Services Provide Service activity, adding logic and then responding using the Send Reply output activity. The Provide Service activity supplies a web service that can be started from an outside client. During run time, the Send Reply activity returns a response to the client.

### Procedure

1. In the Project toolbox tab, select an orchestration, for example CreateObjects. The orchestration is displayed in the Studio workspace.
2. In the orchestration, click on the **Provide Service** activity. The Map Outputs panel is displayed.
3. In the Map Outputs panel, click on **body**. The node type window is displayed showing the input data.
4. Using the information in the node type window, map the body data and use the data to create the object in your endpoint.
5. Select **Orchestration -> Validate**.

Note: The orchestration generated for **Starter Activity** has Provide Service and Invoke Service activities. As a part of implementing the **Starter Activity**, fetch the required data and pass the values to the pregenerated Invoke Service Activity, in

the end. The Invoke Service activity must be the last activity in the orchestration. Also, populate the optional parameter location to the callbackURL received as a part of the ConnectionFields header of the pregenerated Provide Service Activity.

## Results

---

The Validation Results window is displayed, showing the results of the validation.

## What to do next

---

Complete orchestrations for the Cast Iron TestConnection, ListObjects and DescribeObjects connector interfaces.

---

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## Cast Iron connector interfaces

---

Cast Iron connectors use three standard interfaces that you implement as orchestrations: TestConnection, ListObjects and DescribeObjects.

Orchestration templates for the TestConnection, ListObjects and DescribeObjects interfaces are automatically created by the Wizard during the Add Activities phase. You must complete the orchestrations based on your individual connector requirements. This section introduces the TestConnection, ListObjects and DescribeObjects interfaces. In [Completing the connector interface orchestrations](#), you complete an orchestration for each.

### TestConnection

---

The TestConnection interface reflects the values you added to the Connection Information window and is used by your connector to establish an endpoint connection. After a connection is made, the connection status is returned as a boolean operator.

### ListObjects

---

The ListObjects interface reflects the values you added to the Add Activities window and returns a list of all objects supported by a specific connector activity. For example a Salesforce create operation might support such objects as Account, Customer, Contact, Opportunity and User, among others. The return list should correspond to a ListObjects Reply Activity schema. Below is an example of a ListObjects response in XML format:

```
<ListObjectsResponse
  xmlns="http://www.approuter.com/schemas/cdk/api/">
  <objectType
    label="Customer"
    xmlns="http://www.approuter.com/schemas/cdk/api/">Account</objectType>
  <objectType
    label="Account Object"
    xmlns="http://www.approuter.com/schemas/cdk/api/">Customer</objectType>
  <objectType
    label="Customer details"
    xmlns="http://www.approuter.com/schemas/cdk/api/">Contact</objectType>
  <objectType
    label="Opportunity details"
    xmlns="http://www.approuter.com/schemas/cdk/api/">Opportunity</objectType>
  <objectType
    label="User details"
    xmlns="http://www.approuter.com/schemas/cdk/api/">User</objectType>
</ListObjectsResponse>
```

### DescribeObjects

---

The `DescribeObjects` interface provides the input and output that enables your users to successfully work with an object exposed through a connector activity. For example if a Salesforce create operation is selected, the input schema is discovered dynamically based on an object selected from `ListObjects`. Here is an example of a response returned by `DescribeObjects`:

```

<DescribeObjectResponse baseType="sObject"
    baseTypeNS="urn:sobject.partner.soap.sforce.com"
        name="create" typeNS="http://example.com/stockquote"
        xmlns="http://www.approuter.com/schemas/cdk/api/"
        xmlns:con="http://www.approuter.com/schemas/cdk/config/"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <object label="createInput" maxCount="1" minCount="1" name="createInput"
        used="true">
        <con:field configurable="true" label="ObjectName" maxCount="1"
            minCount="1" name="ObjectName" used="true">
            <con:type>string</con:type>
        </con:field>
        <con:field configurable="true" label="FirstName" maxCount="1"
            minCount="1" name="FirstName" used="true">
            <con:type>string</con:type>
        </con:field>
        <con:field configurable="true" label="LastName" maxCount="1"
            minCount="1" name="LastName" used="true">
            <con:type>string</con:type>
        </con:field>
        <con:field configurable="true" label="Phone" maxCount="1"
            minCount="1" name="Phone" used="true">
            <con:type>string</con:type>
        </con:field>
    </object>
    <responseObject label="createOutput" maxCount="1"
        minCount="1" name="createOutput" used="true">
        <con:field configurable="true" label="Id" maxCount="1"
            minCount="1" name="Id" used="true">
            <con:type>string</con:type>
        </con:field>
        <con:field configurable="true" label="ObjectName" maxCount="1"
            minCount="1" name="ObjectName" used="true">
            <con:type>string</con:type>
        </con:field>
        <con:field configurable="true" label="Status" maxCount="1"
            minCount="1" name="Status" used="true">
            <con:type>string</con:type>
        </con:field>
    </responseObject>
</DescribeObjectResponse>

```

## Dynamic schema discovery

---

The `DescribeObjects` schema discovery feature lets you dynamically discover a schema at runtime. The schema is imported into your orchestration when any connector activity uses a schema element as input or output. If previously imported schemas need to be discovered using `complexType QName` and substituted dynamically as input or output activities, set the attributes in `DescribeObject` response as shown in the following schema:

```

< xsd:schema targetNamespace = " urn.sample.stock
" xmlns:xsd = "http://www.w3.org/2001/XMLSchema" >
< xsd:element name = "TradePriceRequest" >
< xsd:complexType >
< xsd:all >
< xsd:element name = "tickerSymbol" type = "xsd:string" />
</ xsd:all >
</ xsd:complexType >
</ xsd:element >
< xsd:complexType name = "ciObject" ></ xsd:complexType >
< xsd:complexType name = " tradingPartner " >
< xsd:sequence >
< xsd:element name = "partnerName" type = "xsd:string" />
</ xsd:sequence >
</ xsd:complexType >

```

For example, to substitute the `complexType tradingPartner` in the preceding schema, set the information to discover the schema and substitute it dynamically as shown in the following example:

```

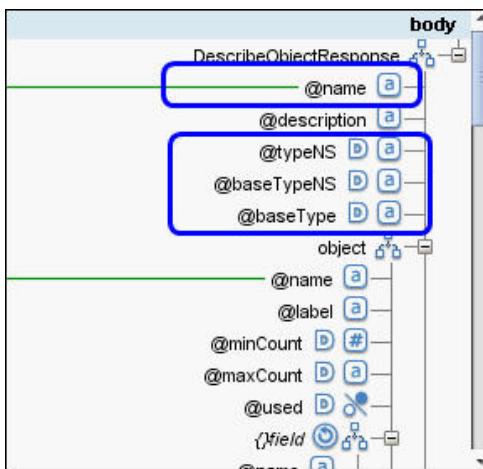
DescribeObject Response value to
@name -> tradingPartner [complexType name to be discovered]

```

```

@typeNS -> url.sample.stock [complexType namespace ]
@baseType -> http://www.approuter.com/schemas/cdk/api/ [CDK default]
@baseType -> cObject [CDK default]

```




---

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## Completing the connector interface orchestrations

---

During this phase, you add business logic to the Cast Iron TestConnection, ListObjects and DescribeObjects orchestrations.

---

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## Completing the TestConnection orchestration

---

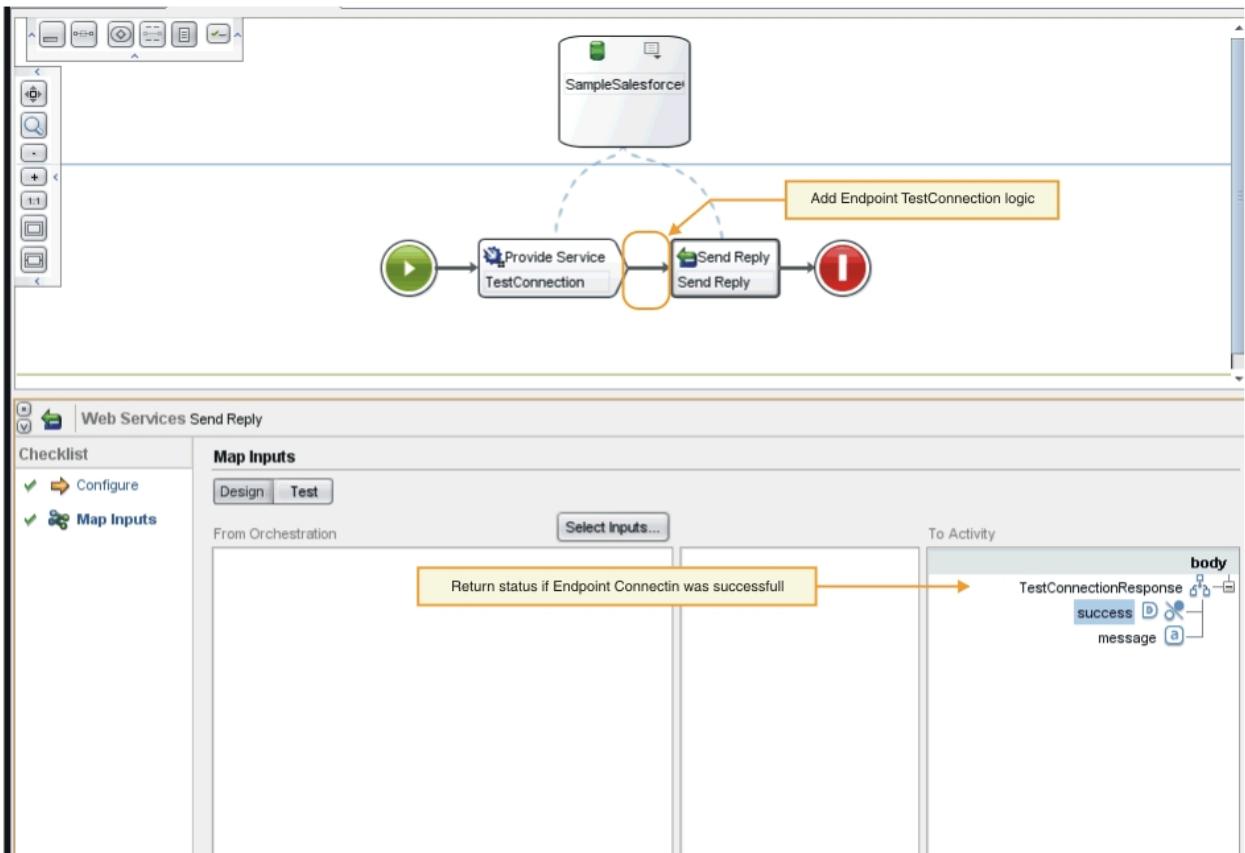
In the following steps, you map values to object types and invoke orchestration activities to test your endpoint connections.

### Procedure

---

1. In the Studio Project toolbox tab, click on the **TestConnection** orchestration. The orchestration is displayed in the Studio workspace.
2. In the orchestration, add the logic needed to connect to your endpoint, as shown in [Figure 1](#).
3. In the orchestration, click on the **Send Reply** activity. The inputs are displayed in the From Orchestration panel.

Figure 1. TestConnection



4. Map the values displayed in the From Orchestration panel to the object types in the To Activity panel. You are now ready to test the orchestration.
5. In the orchestration, right-click on the **Provide Service** activity. The Verify Activity menu is displayed.
6. In the Verify Activity menu, select **Invoke Service**. The Invoke Service window is displayed.
7. In the Invoke Service window, enter the header and body data and click **Execute** to start the test. To view the test activity, click the **Show Response** button. When the test is completed, the results are displayed in the Verify toolbox tab.
8. If the connection is successful, the test response will show a "true" value. To complete the orchestration, map "true" to the **success** field of the **TestConnectionResponse** parameter in the To Activity panel.

## What to do next

If your connector activity is discoverable at design time, complete the procedures in [Completing the ListObjects orchestration](#). If your connector activity is not discoverable, you can move ahead to [Completing the DescribeObjects orchestration](#).

---

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## Completing the ListObjects orchestration

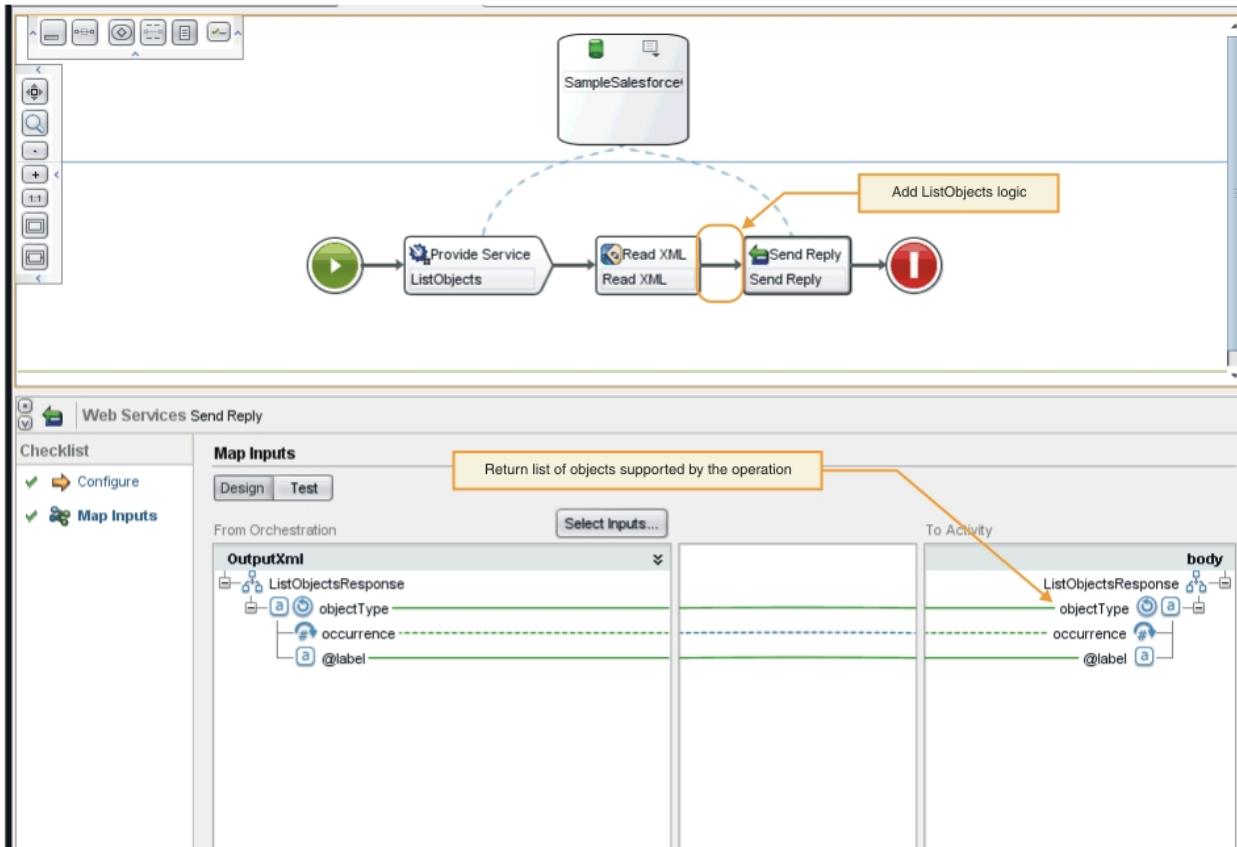
In the steps that follow, you add business logic to your ListObjects orchestration, map values to object types and invoke orchestration activities to test your endpoint connections. Only complete the procedures in this section if your orchestration activity is discoverable at design time.

---

### Procedure

- In the Studio Project toolbox tab, click on the **ListObjects** orchestration. The orchestration is displayed in the Studio workspace.
- In the ListObjects orchestration, add your logic as shown in [Figure 1](#). A list of objects supported by the connector for the provided endpoint are displayed in the To Activity panel.

Figure 1. ListObjects



- In the orchestration, select the **Send Reply** activity. The inputs are displayed in the From Orchestration panel.
- In the From Orchestration panel, click on an activity. A list of objects supported by the operation is displayed in the To Activity panel.
- Map the values displayed in the From Orchestration panel to the object types in the To Activity panel under **ListObjectsResponse**, as shown in [Figure 1](#). You are now ready to test the orchestration.
- In the orchestration, right-click on the **Provide Service** activity. The Verify Activity menu is displayed.
- In the Verify Activity menu, select **Invoke Service**. The Invoke Service window is displayed.
- In the Invoke Service window, enter the header and body data and click **Execute** to start the test. To view the test activity, click the **Show Response** button.

## Results

When the test is completed, the results are displayed in the Verify toolbox tab. If errors are present, make the necessary corrections, then re-run the unit test.

## What to do next

Complete the **DescribeObjects** orchestration.

---

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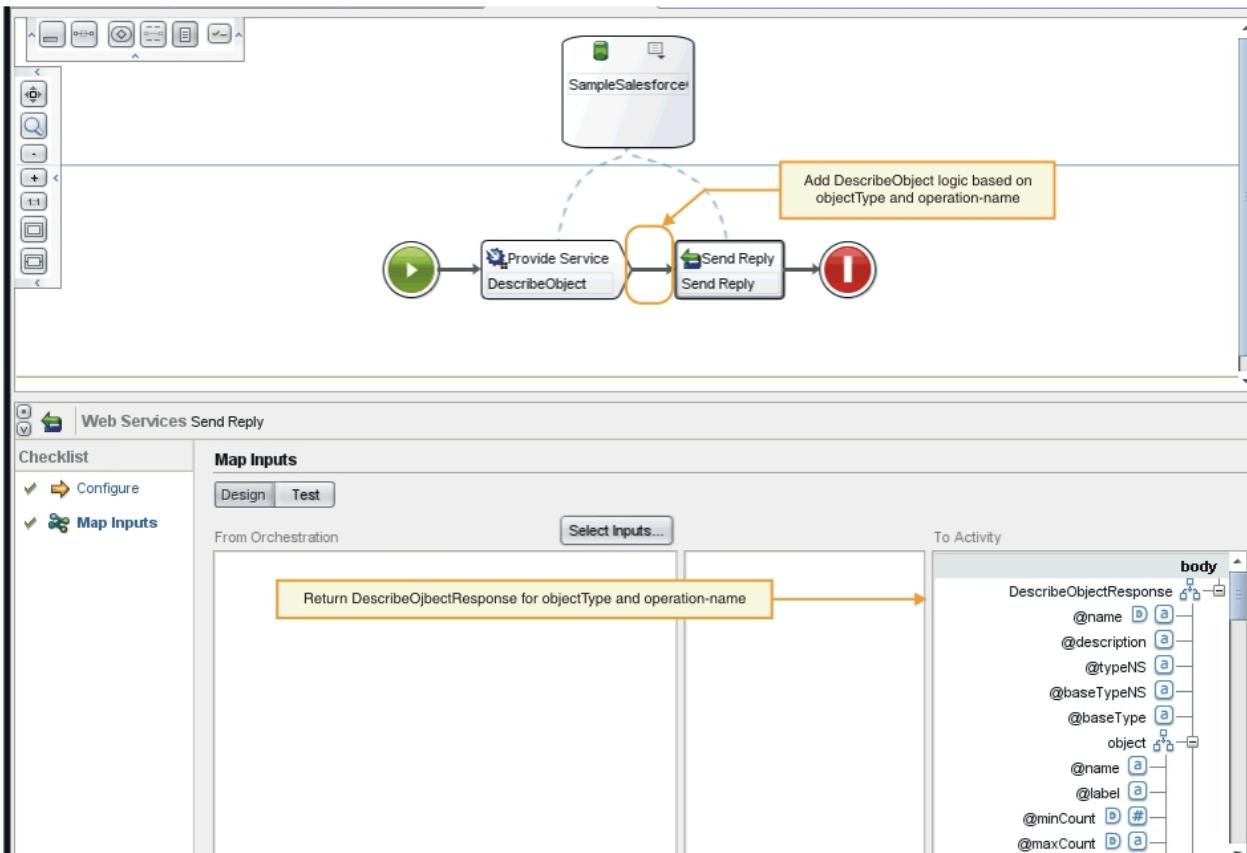
# Completing the DescribeObjects orchestration

To complete the DescribeObjects orchestration, you map outputs to input data, transform the object metadata to XML format to conform to the `ci-connector-api.xsd` file, then test the orchestration.

## Procedure

1. In the Studio Project toolbox tab, click on the **DescribeObjects** orchestration. The orchestration is displayed in the Studio workspace.
2. In the orchestration, click on the **Provide Service** activity. The Map Outputs panel is displayed.
3. In the Map Outputs panel, click on **body**. The node type window is displayed showing the input data.
4. Add logic to the orchestration based on `object` and `operation_name`, as shown in [Figure 1](#) to obtain the object metadata.

Figure 1. DescribeObjects



5. Transform the object metadata to XML format to conform to the `ci-connector-api.xsd` file described in [Cast Iron CDK schema files](#). After the metadata is transformed to XML, your schema looks like this:

```
< DescribeObjectResponse
baseType = "sObject"
baseTypeNS = "urn:sobject.partner.soap.sforce.com"
name = "create"
typeNS = "http://example.com/stockquote"
xmlns = "http://www.approuter.com/schemas/cdk/api/"
xmlns:con = "http://www.approuter.com/schemas/cdk/config/"
xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance" >
< object
label = "createInput"
maxCount = "1"
minCount = "1"
name = "createInput"
used = "true" >
< con:field
configurable = "true"
label = "ObjectName"
maxCount = "1"
minCount = "1"
name = "ObjectName"
used = "true" >
```

```

< con:type > string </ con:type >
</ con:field >
< con:field
configurable = "true"
label = "FirstName"
maxCount = "1"
minCount = "1"
name = "FirstName"
used = "true" >
< con:type > string </ con:type >
</ con:field >
< con:field
configurable = "true"
label = "LastName"
maxCount = "1"
minCount = "1"
name = "LastName"
used = "true" >
< con:type > string </ con:type >
</ con:field >
< con:field
configurable = "true"
label = "Phone"
maxCount = "1"
minCount = "1"
name = "Phone"
used = "true" >
< con:type > string </ con:type >
</ con:field >
</ object >
< responseObject
label = "createOutput"
maxCount = "1"
minCount = "1"
name = "createOutput"
used = "true" >
< con:field
configurable = "true"
label = "Id"
maxCount = "1"
minCount = "1"
name = "Id"
used = "true" >
< con:type > string </ con:type >
</ con:field >
< con:field
configurable = "true"
label = "ObjectName"
maxCount = "1"
minCount = "1"
name = "ObjectName"
used = "true" >
< con:type > string </ con:type >
</ con:field >
< con:field
configurable = "true"
label = "Status"
maxCount = "1"
minCount = "1"
name = "Status"
used = "true" >
< con:type > string </ con:type >
</ con:field >
</ responseObject >
</ DescribeObjectResponse >

```

6. In the DescribeObjects orchestration, select the **Send Reply** activity. The Map Inputs panel is displayed.
7. In the Map Inputs panel, map the generated XML to the DescribeObjectResponse parameter in the To Activity panel. You are now ready to test the orchestration.
8. In the orchestration, right-click on the **Provide Service** activity. The Verify Activity menu is displayed.
9. In the Verify Activity menu, select **Invoke Service**. The Invoke Service window is displayed.
10. In the Invoke Service window, enter the header and body data and click **Execute** to start the test. To view the test activity, click the **Show Response** button.

## Results

When the test is completed, the results are displayed in the Verify toolbox tab. If errors are present, make the necessary corrections, then re-run the unit test.

## What to do next

In the next phase, you learn how to publish your connector project to a local repository.

### Feedback | Notices

Last updated: Thursday, 2 June 2016

file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk\\_completingdescribeobjects.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk_completingdescribeobjects.html)

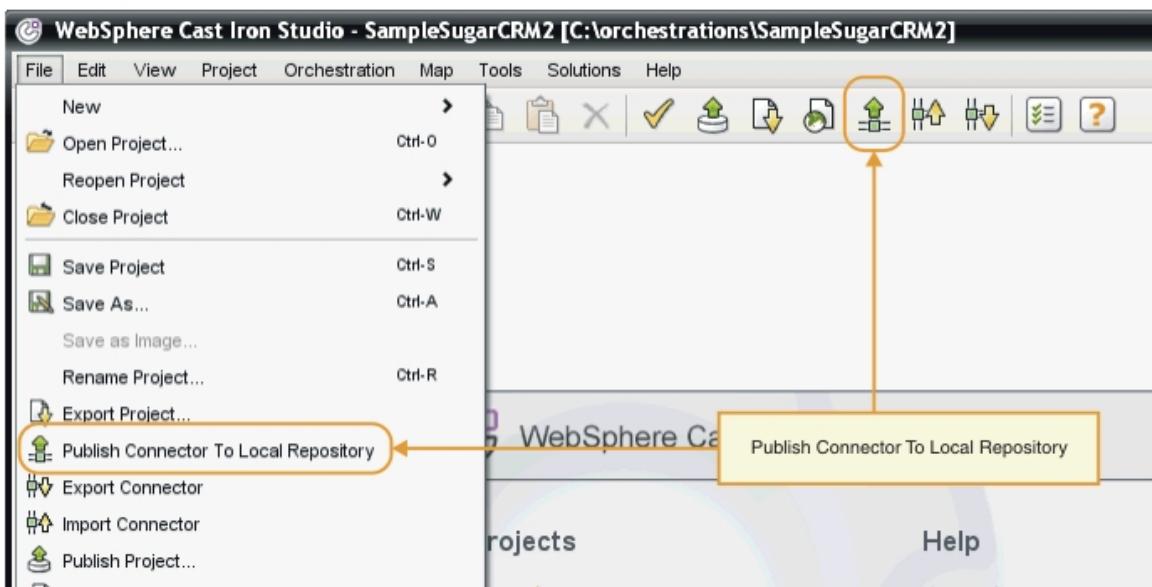
## Publishing to a local repository

During this phase, Studio validates your orchestrations. If validation is successful, you can publish your connector to a repository on your local computer for testing and debugging.

### Procedure

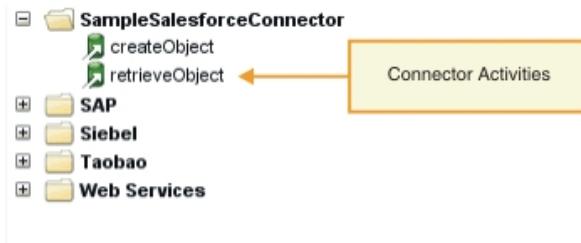
1. Select **File -> Publish Connector to Local Repository** or click the **Publish** toolbar icon as shown in [Figure 1](#). Studio validates the orchestrations. If validation is successful, the connector is published to the connector repository at `<user_home>/castiron/connector-repository`. If the validation fails, error messages are displayed. Correct the problems and re-publish.
2. Restart Studio. Your connector activities are displayed in the Studio Activities toolbox tab and are available for use.

Figure 1. Publish connector to a local repository



After the conclusion of your development work, your connector and connector activities are displayed in the Studio Activities toolbox tab, as shown in [Figure 2](#).

Figure 2. Connector and connector activities displayed in Studio Activities toolbox tab.



Note: Do not attempt to deploy a connector project directly to an appliance, as this will result in an error. For best results, only deploy connector projects that are displayed as endpoints inside Studio.

## What to do next

---

In the next section, you perform runtime validation and test your endpoints.

---

### Feedback | Notices

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk\\_deployconnector.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk_deployconnector.html)

## Test and debug

---

Studio provides several facilities to test your connector components. During the test and debug phase, you perform runtime validations that test your connector and diagnose configuration or data errors. All outbound endpoints should be tested.

When you test your connector, the Studio build process checks that your XML file is well-formed and validates it against your schema files. It then generates outbound mappings, creates and sends an outbound message, receives a response and executes the inbound mappings. The CDK performs two types of tests:

- Unit testing
- Integration testing

---

### Feedback | Notices

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk\\_testdebug1.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk_testdebug1.html)

## Unit testing your connector components

---

Unit testing is key to the success of any development project and is basically a pass/fail test that verifies that components of your connector perform as expected.

### About this task

---

During this phase, you perform a unit test that simulates the communication between a client and a web service that is exposed as a Web Service Provide activity.

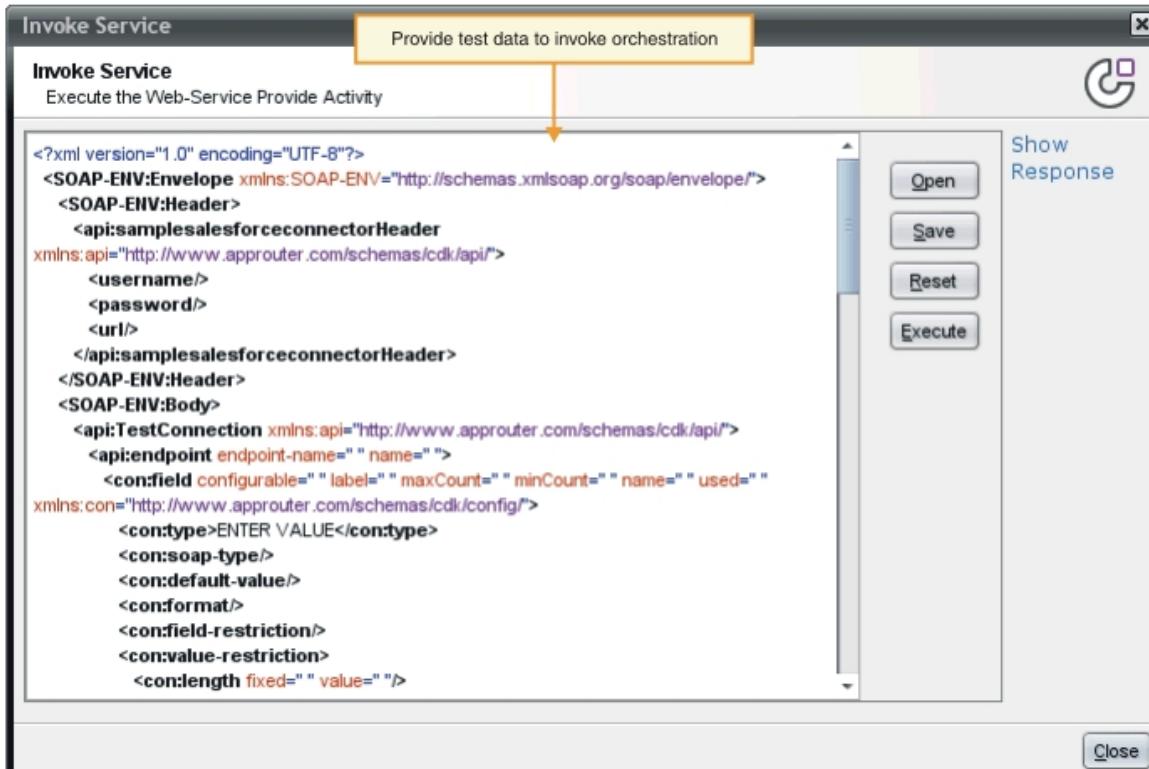
### Procedure

---

1. In the Projects toolbox tab, select an orchestration. The orchestration is displayed in the Studio workspace.

2. In the orchestration, right-click on the **Provide Service** activity. The Verify Activity menu is displayed.
3. In the Verify Activity menu, select **Invoke Service**. The Invoke Service window is displayed, as shown in [Figure 1](#).
4. In the Invoke Service window, enter the header and body data and click **Execute** to start the test. To view the test activity, click the **Show Response** button.

Figure 1. Invoke Service window



Note: Be cautious when using the Reset button. It erases the existing content in the Invoke Service window and repopulates it with web service template information. Only click Reset when you want to start over with unit testing.

## Results

When the test is completed, the results are displayed in the Verify toolbox tab. If errors are present, make the necessary corrections, then re-run the unit test.

## What to do next

Perform integration testing to determine if your connector components are performing properly.

---

### Feedback | Notices

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk\\_unittest.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk_unittest.html)

## Integration testing your connector services and activities

During integration testing, you validate that your connector services, messages and interfaces are performing properly.

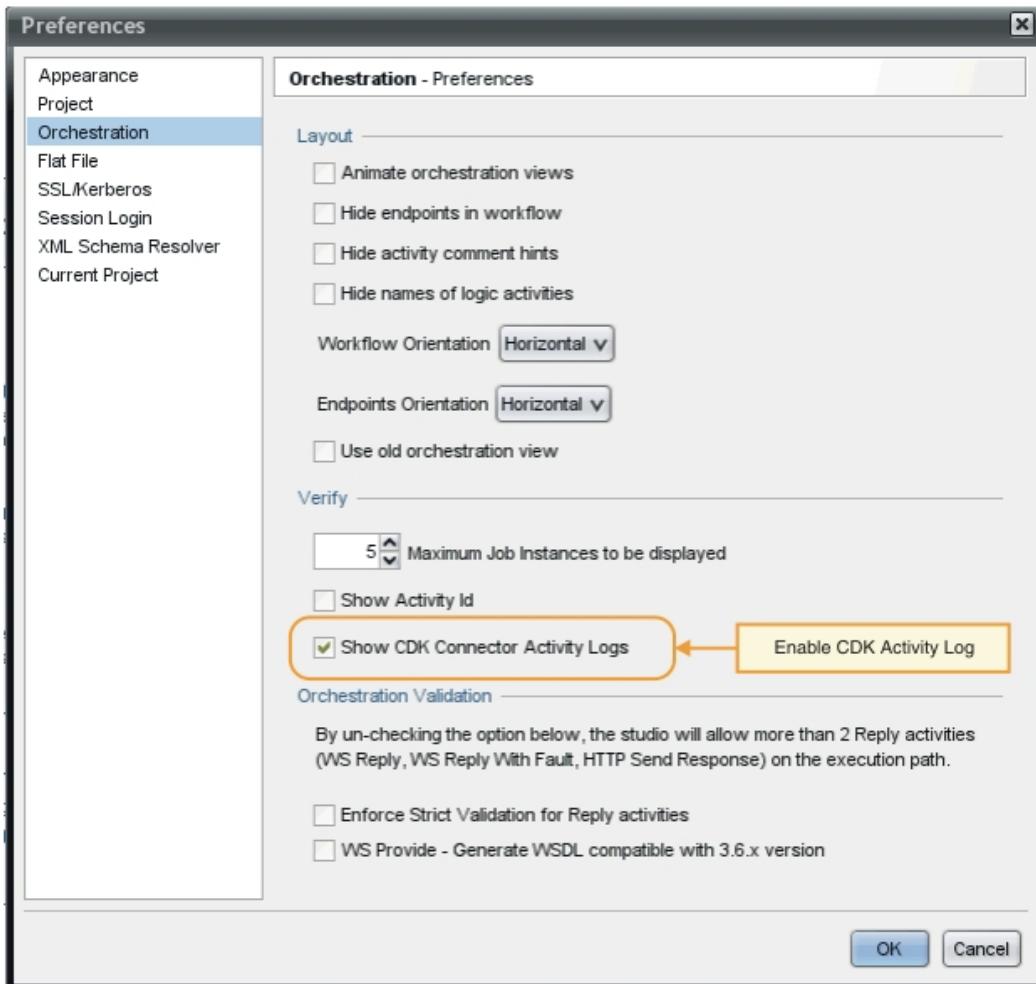
---

## Procedure

1. In the Projects toolbox tab, select an orchestration. The orchestration is displayed in the Studio workspace.
2. In the Activities toolbox tab, select an activity and drag and drop it into your orchestration.
3. In the Studio workspace, click on the activity. The activity is highlighted.

4. In the Checklist panel, click **Pick Endpoint**. The Pick Endpoint panel is displayed.
5. In the Pick Endpoint panel, click **New**. The Create Endpoint panel is displayed.
6. In the Create Endpoint panel, enter the connection information and click **TestConnection**.
7. If the connection is successful, click **OK**.
8. In the Checklist panel, click **Configure**. The Configure panel is displayed.
9. Optional: In the Configure panel, click **Browse** to search for browseable activity. (This step is not necessary for non-browseable activity). The ListObject dialog window is displayed.
10. In the ListObjects dialog window, select a schema to become the input for the selected activity.
11. Complete the input and output mapping.
12. Test the orchestration. If you wish to view the processor activity, check the **Show CDK Connector Activity Logs** option in the Studio Preferences window, as shown in [Figure 1](#).

Figure 1. Preferences window



## Results

Processor activity and final test results are displayed in the Studio Verify toolbox tab.

## What to do next

In the next section, you learn how to export and import connector projects.

---

### Feedback | Notices

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk\\_integrationtest.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk_integrationtest.html)

# Exporting and importing a connector project

---

Once you have created and tested your connector, you can export it to an external location so it can be used by others. You can also import a connector archive file into Studio.

You export and import connector projects using the Studio menus or by clicking on the Export or Import toolbar icons.

Note: Do not attempt to deploy a connector project directly to an appliance, as this will result in an error. For best results, only deploy connector projects that are displayed as endpoints inside Studio.

---

[Feedback](#) | [Notices](#)

 Last updated: Thursday, 2 June 2016

file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk\\_exporting\\_importing.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk_exporting_importing.html)

## Exporting your connector project

---

When you export your completed connector from Studio to an external location, it can be loaded and used by others. Exported connectors are packaged as standard .zip files.

### About this task

---

You use Studio menu options or the toolbar to export your connector. If you don't specify a directory, your exported connector project is placed in a subdirectory of your project directory. If you choose to export to an archive file, the project is packaged in a .zip archive beneath your project directory.

### Procedure

---

1. Select **File -> Export Connector** or click on the **Export Connector** toolbar icon. The File dialog window is displayed showing a list of available connectors.
2. In the File dialog window, select your connector and click **OK**. The Save dialog window is displayed.
3. In the Save dialog window, browse for a location to export your project, then click **Save**.

### Results

---

Your connector is exported as a standard .zip archive.

### What to do next

---

In the next section, you learn how to import a connector project.

---

[Feedback](#) | [Notices](#)

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file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk\\_exportyourconnectorproject.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk_exportyourconnectorproject.html)

## Importing a connector project

---

You can use Studio to import a connector project that has been developed as a standard compressed file archive.

### About this task

---

You use Studio menu options or the toolbar to import a connector into Studio.

## Procedure

---

1. Select **File -> Import Connector** or click on the **Import Connector** toolbar icon. The File dialog window is displayed.
2. In the File dialog window, select a connector and click **OK**.

## Results

---

The connector is imported into Studio as a .zip archive.

## What to do next

---

In the next section, an overview of the CDK components is presented.

---

[Feedback](#) | [Notices](#)

>Last updated: Thursday, 2 June 2016  
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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk\\_importaconnector.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk_importaconnector.html)

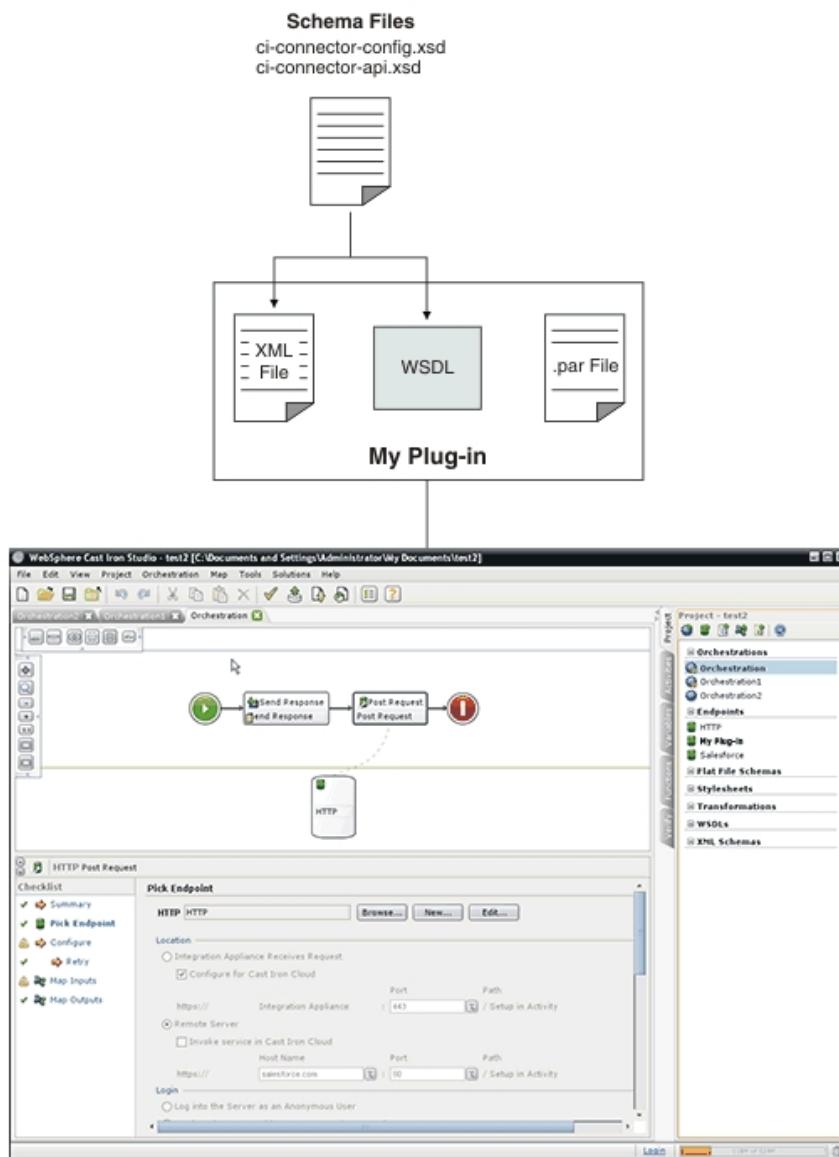
## Cast Iron CDK components

---

The Connector Developer Kit contains four major components which work together to comprise the CDK development platform.

Figure 1 shows the components and illustrates their relationship to Studio:

Figure 1. CDK components



## Feedback | Notices

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk\\_components.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk_components.html)

## Cast Iron CDK schema files

XML schema files provide the syntax and define how elements and attributes are represented in XML files. You import the Cast Iron CDK schema files into your Studio development environment, then create your endpoints and connections by dragging schema elements from the **Project** toolbox tab into your orchestration.

The CDK schema files are:

**ci-connector-config.xsd** - This file is used by Studio and the deployment engine to define the basic configuration options available to your connector. Plug-in metadata is stored as elements in your XML file and once configured, the endpoint properties define what your end-users see and the activities they are exposed to. Here is the `ci-connector-config.xsd` file:

```
<xss:schema
    id="_dcs_markdown_workspace_Transform_htmlout_0_com.ibm.wci.cdk.doc_cdk_schemas_ci-cdk-config"
```

```

version="1.0"
targetNamespace="http://www.approuter.com/schemas/cdk/config/"
xmlns:tns="http://www.approuter.com/schemas/cdk/config/"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:jaxb="http://java.sun.com/xml/ns/jaxb"
xmlns:xjc="http://java.sun.com/xml/ns/jaxb/xjc"
jaxb:extensionBindingPrefixes="xjc"
jaxb:version="2.0"
elementFormDefault="qualified">
<xs:annotation>
    <xs:appinfo>
        <jaxb:schemaBindings>
            <jaxb:package
                name="com.approuter.studio.connectors.cdk.config" />
        </jaxb:schemaBindings>
        <jaxb:globalBindings>
            <xjc:simple />
        </jaxb:globalBindings>
    </xs:appinfo>
</xs:annotation>
<xs:element
    name="connectorConfiguration">
    <xs:complexType>
        <xs:sequence>
            <!-- Connector description -->
            <xs:element
                name="description"
                type="xs:string" />
            <!-- Endpoint form definition -->
            <xs:element
                name="endpoint"
                type="tns:EndpointForm" />
            <!-- Connector activities -->
            <xs:element
                name="activity-group"
                type="tns:ActivityGroup" />
            <xs:element
                name="operations"
                minOccurs="0">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element
                            name="operation"
                            type="tns:operationType"
                            minOccurs="0"
                            maxOccurs="unbounded" />
                    </xs:sequence>
                    <!--
                        default endpoint location for those
                        operations that do not define one or are
                        not defined
                    -->
                    <xs:attribute
                        name="default-endpoint-location"
                        type="xs:string"
                        use="optional" />
                </xs:complexType>
            </xs:element>
            <!-- Minimum client version -->
            <xs:element
                name="clients"
                minOccurs="0">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element
                            name="client"
                            type="tns:CompatibleClient"
                            minOccurs="0"
                            maxOccurs="unbounded" />
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <!-- release documentation -->
            <xs:element
                name="release-documentation"
                type="tns:ReleaseDocumentation" />
        </xs:sequence>
    </xs:complexType>
</xs:element>

```

```

        minOccurs="0"
        maxOccurs="unbounded" />
    </xs:sequence>
    <!--
        Internal name of the connector. Do not change
        names between releases of the connector
    -->
    <xs:attribute
        name="name"
        type="xs:string"
        use="required" />
    <!-- Readable label for connector -->
    <xs:attribute
        name="label"
        type="xs:string"
        use="required" />
    <!--
        Connection namespace. Used to associate
        activities with endpoints within Studio
    -->
    <xs:attribute
        name="connection-ns"
        type="xs:string"
        use="required" />
    <!-- Version of this connector -->
    <xs:attribute
        name="version"
        type="xs:string"
        use="required" />
    <!-- notes -->
    <xs:attribute
        name="notes"
        type="xs:string" />
    <!-- release date -->
    <xs:attribute
        name="release-date"
        type="xs:dateTime"
        use="optional" />
    <!--
        General hint to consumer as to its
        classification
    -->
    <xs:attribute
        name="category"
        type="tns:ConnectorCategory" />
</xs:complexType>
</xs:element>
<xs:complexType
    name="ReleaseDocumentation">
    <xs:simpleContent>
        <xs:extension
            base="xs:string">
            <!-- corresponding plugin connector version -->
            <xs:attribute
                name="release-version"
                type="xs:string" />
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
<xs:complexType
    name="CompatibleClient">
    <xs:attribute
        name="clientName"
        type="xs:string"
        default="castiron-studio" />
    <xs:attribute
        name="minimumClientVersion"
        type="xs:string"
        default="6.0" />
</xs:complexType>
<!--
    Endpoint form. Test connection action required.
-->
<xs:complexType
    name="EndpointForm">
    <xs:complexContent>

```

```

<xs:extension
    base="tns:Form">
    <xs:sequence>
        <xs:element
            name="test-connection-action"
            type="tns:TestConnectionAction" />
        <!-- Connector description -->
        <xs:element
            name="endpoint-description"
            type="xs:string" />
    </xs:sequence>
    <!--
        Used for Studio menu integration (e.g.
        Endpoints menu-item, default endpoint
        instance name)
    -->
    <xs:attribute
        name="endpoint-name"
        type="xs:string"
        use="required" />
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType
    name="Form">
    <xs:sequence>
        <!-- Form fields -->
        <xs:element
            name="field"
            type="tns:FormField"
            minOccurs="0"
            maxOccurs="unbounded" />
        <!-- Fields can be grouped -->
        <xs:element
            name="field-group"
            type="tns:FieldGroup"
            minOccurs="0"
            maxOccurs="unbounded" />
        <!-- Form actions. -->
        <xs:element
            name="actions"
            type="tns:Actions"
            minOccurs="0"
            maxOccurs="1" />
    </xs:sequence>
    <xs:attribute
        name="name"
        type="xs:string"
        use="required" />
</xs:complexType>

<!-- Fields can be a member of a group -->
<xs:complexType
    name="FieldGroup">
    <xs:sequence>
        <xs:element
            name="field"
            type="tns:FormField"
            minOccurs="0"
            maxOccurs="unbounded" />
        <xs:element
            name="field-group"
            type="tns:FieldGroup"
            minOccurs="0"
            maxOccurs="unbounded" />
    </xs:sequence>
    <xs:attribute
        name="name"
        type="xs:string"
        use="required" />
    <!-- Readable group label -->
    <xs:attribute
        name="label"
        type="xs:string"
        use="optional" />
<!--

```

Predefined groups. If specified, there is no need to specify label, groups, or fields. If specified they will be ignored.

```

-->
<xs:attribute
    name="type"
    use="optional">
    <xs:simpleType>
        <xs:restriction
            base="xs:string">
                <xs:enumeration
                    value="connection-timeout" />
                <xs:enumeration
                    value="connection-proxy" />
                <!-- TBD others -->
            </xs:restriction>
        </xs:simpleType>
    </xs:attribute>
</xs:complexType>
<xs:complexType
    name="FormField">
    <xs:annotation>
        <xs:appinfo>
            <jaxb:bindings
                node="//xs:complexType[@name='FormField']">
                <jaxb:class

```

implClass="com.approuter.studio.connectors.cdk.config.ConnectorFormField" />

```

                </jaxb:bindings>
            </xs:appinfo>
        </xs:annotation>
        <xs:complexContent>
            <xs:extension
                base="tns:FieldDescriptor">
                <xs:sequence>
                    <!-- summary description text -->
                    <xs:element
                        name="short-description"
                        type="xs:string"
                        minOccurs="0" />
                    <!-- detailed description text -->
                    <xs:element
                        name="long-description"
                        type="xs:string"
                        minOccurs="0" />
                    <!-- hint text -->
                    <xs:element
                        name="hint"
                        type="xs:string"
                        minOccurs="0" />
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
    <xs:complexType
        name="Actions">
        <xs:sequence>
            <xs:element
                name="action"
                type="tns:Action"
                maxOccurs="unbounded" />
            <!-- summary description text -->
            <xs:element
                name="short-description"
                type="xs:string"
                minOccurs="0" />
        </xs:sequence>
        <xs:attribute
            name="label"
            type="xs:string"
            use="optional" />
    </xs:complexType>
    <xs:complexType
        name="Action">
        <xs:simpleContent>
            <xs:extension

```

```

        base="xs:string">
        <xs:attribute
            name="label"
            type="xs:string" />
        <!--
            the operation that should be invoked in
            response to the action
        -->
        <xs:attribute
            name="operation-name" />
        <!-- summary description text -->
        <xs:attribute
            name="short-description"
            type="xs:string"
            use="required" />
    </xs:extension>
</xs:simpleContent>
</xs:complexType>
<xs:complexType
    name="TestConnectionAction">
    <xs:simpleContent>
        <xs:restriction
            base="tns:Action">
            <xs:attribute
                name="operation-name"
                fixed="TestConnection" />
            <xs:attribute
                name="label"
                type="xs:string"
                fixed="Test Connection" />
        </xs:restriction>
    </xs:simpleContent>
</xs:complexType>

<!-- predefined connector categories -->
<!--
    used to indicate the enterprise solution type
-->
<xs:simpleType
    name="ConnectorCategory">
    <xs:restriction
        base="xs:string">
        <xs:enumeration
            value="CRM" />
        <xs:enumeration
            value="SCM" />
        <xs:enumeration
            value="ERP" />
        <xs:enumeration
            value="ECM" />
        <xs:enumeration
            value="SFA" />
        <xs:enumeration
            value="BPM" />
        <xs:enumeration
            value="IBP" />
        <xs:enumeration
            value="ORM" />
        <xs:enumeration
            value="MIS" />
        <xs:enumeration
            value="SIS" />
        <xs:enumeration
            value="COM" />
        <xs:enumeration
            value="MOM" />
        <xs:enumeration
            value="PIM" />
        <xs:enumeration
            value="Database" />
        <!-- etc -->
    </xs:restriction>
</xs:simpleType>

<!-- activities -->

```

```

<xs:complexType
    name="ActivityGroup">
    <xs:sequence>
        <xs:element
            name="activity"
            type="tns:Activity"
            minOccurs="1"
            maxOccurs="unbounded" />
    </xs:sequence>
    <!--
        this is the label of the group under which the
        activities will appear
    -->
    <xs:attribute
        name="label"
        type="xs:string"
        use="optional" />
</xs:complexType>

<!-- activity -->
<xs:complexType
    name="Activity">
    <xs:sequence>
        <!-- wsdl operation -->
        <xs:element
            name="operation-name"
            type="xs:string" />
        <xs:element
            name="description"
            type="xs:string" />
        <xs:element
            name="task-list"
            type="tns:Tasks" />
    </xs:sequence>
    <xs:attribute
        name="name"
        type="xs:string"
        use="required" />
    <!--
        this is the label of the activity that appears
        under an activity group
    -->
    <xs:attribute
        name="label"
        type="xs:string"
        use="optional" />
</xs:complexType>

<!-- activity tasks -->
<xs:complexType
    name="Tasks">
    <xs:sequence>
        <xs:element
            name="configure-task"
            type="tns:ConfigureTask" />
    </xs:sequence>
</xs:complexType>
<!--
    possible enhancement: determine "browsability"
    based on if input is an extension of abstract
    type.
-->
<xs:complexType
    name="ConfigureTask">
    <xs:sequence>
        <xs:element
            name="type"
            type="tns:ConfigurationType"
            default="browse" />
        <xs:element
            name="applies-to"
            type="tns:AppliesTo"
            minOccurs="0"
            default="inputs" />
    </xs:sequence>
</xs:complexType>

```

```

<!-- browsable or not -->
<!--
    possible enhancement: determine browsability
    based on if input is an extension of abstract
    type.
-->
<xs:simpleType
    name="ConfigurationType">
    <xs:restriction
        base="xs:string">
        <xs:enumeration
            value="none" />
        <xs:enumeration
            value="browse" />
    </xs:restriction>
</xs:simpleType>

<!-- are the inputs or outputs configured? -->
<!--
    possible enhancement: determine browsability
    based on if input is an extension of abstract
    type.
-->
<xs:simpleType
    name="AppliesTo">
    <xs:restriction
        base="xs:string">
        <xs:enumeration
            value="inputs" />
        <xs:enumeration
            value="outputs" />
        <xs:enumeration
            value="both" />
    </xs:restriction>
</xs:simpleType>

<!-- **** -->
<!-- Descriptors... -->
<xs:simpleType
    name="allNNI">
    <xs:annotation>
        <xs:documentation> for maxOccurs
        </xs:documentation>
    </xs:annotation>
    <xs:union
        memberTypes="xs:nonNegativeInteger">
        <xs:simpleType>
            <xs:restriction
                base="xs:NMTOKEN">
                <xs:enumeration
                    value="unbounded" />
            </xs:restriction>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<xs:attributeGroup
    name="counts">
    <xs:attribute
        name="minCount"
        type="xs:nonNegativeInteger"
        use="optional"
        default="1" />
    <xs:attribute
        name="maxCount"
        type="tns:allNNI"
        use="optional"
        default="1" />
</xs:attributeGroup>
<xs:complexType
    name="Descriptor"
    abstract="true">
    <xs:sequence />
    <xs:attribute
        name="name"

```

```

        type="xs:string"
        use="required" />
    <!-- readable label text -->
    <xs:attribute
        name="label"
        type="xs:string"
        use="optional" />
    <xs:attributeGroup
        ref="tns:counts" />
</xs:complexType>
<!--
    child nodes annotated with 'volatile' indicate
    that text node is set externally to the
    connector implementation (e.g. by end-user
    building a project that uses the connector)
-->
<xs:complexType
    name="FieldDescriptor">
    <xs:complexContent>
        <xs:extension
            base="tns:Descriptor">
            <xs:sequence>
                <!-- field type (e.g. string, boolean, ...) -->
                <xs:element
                    name="type"
                    type="tns:FieldType" />
                <!-- associated xsd type -->
                <xs:element
                    name="soap-type"
                    type="tns:SoapType"
                    minOccurs="0" />
                <!--
                    define a default value for the field if
                    applicable
                -->
                <xs:element
                    name="default-value"
                    type="xs:string"
                    minOccurs="0" />
                <!--
                    define if values are of a particular format
                    e.g. password etc
                -->
                <xs:element
                    name="format"
                    type="tns:FieldFormat"
                    minOccurs="0" />
                <!--
                    define if possible values form a collection
                    (e.g. a range or set of values)
                -->
                <xs:element
                    name="field-restriction"
                    type="tns:FieldRestriction"
                    minOccurs="0" />
                <!--
                    define if values are restricted to regex
                    pattern
                -->
                <xs:element
                    name="value-restriction"
                    type="tns:ValueRestriction"
                    minOccurs="0" />
                <!--
                    volatile: current or set value. (e.g.
                    "posted" value from endpoint panel when
                    end-user presses the 'Test Connection'
                    button.)
                -->
                <xs:element
                    name="value"
                    type="xs:string"
                    minOccurs="0">
                    <xs:annotation>
                        <xs:appinfo>volatile</xs:appinfo>
                    </xs:annotation>

```

```

        </xs:element>
    </xs:sequence>
    <!--
        <xs:attribute name="readable"
            type="xs:boolean" use="optional"
            default="true"/> <xs:attribute
            name="writable" type="xs:boolean"
            default="true" use="optional"/>
    -->
    <!-- namespace of this FieldDescriptor -->
    <xs:attribute
        name="ns"
        type="xs:anyURI" />
    <!--
        can a configuration property be applied to
        this field?
    -->
    <xs:attribute
        name="configurable"
        type="xs:boolean"
        default="false" />
    <!-- internal -->
    <xs:attribute
        name="used"
        type="xs:boolean"
        default="true">
        <xs:annotation>
            <xs:appinfo>volatile</xs:appinfo>
        </xs:annotation>
    </xs:attribute>
    </xs:extension>
</xs:complexContent>
</xs:complexType>
<!--
    Descriptor allows consumers to obtain detailed
    object description. For instance, this allows
-->
<!--
    Studio's UI generator to produce a user
    interface with various ui-component types and
    behaviors (in a consistent way.)
-->
<!--
    Note: ObjectDescriptor is part of
    DescribeObjectResponse defined in
    ci-connector-api.xsd
-->
<xs:complexType
    name="ObjectDescriptor">
    <xs:complexContent>
        <xs:extension
            base="tns:Descriptor">
            <xs:sequence>
                <xs:element
                    name="field"
                    type="tns:FieldDescriptor"
                    minOccurs="0"
                    maxOccurs="unbounded" />
                <xs:element
                    name="object"
                    type="tns:ObjectDescriptor"
                    minOccurs="0"
                    maxOccurs="unbounded" />
            </xs:sequence>
            <!-- namespace of this ObjectDescriptor -->
            <xs:attribute
                name="ns"
                type="xs:anyURI" />
            <!-- internal -->
            <xs:attribute
                name="used"
                type="xs:boolean"
                default="true">
                <xs:annotation>
                    <xs:appinfo>volatile</xs:appinfo>
                </xs:annotation>
            </xs:attribute>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```

        </xs:attribute>
    </xs:extension>
</xs:complexContent>
</xs:complexType>

<!-- supported types --&gt;
&lt;xs:simpleType
    name="FieldType"&gt;
    &lt;xs:restriction
        base="xs:string"&gt;
        &lt;xs:enumeration
            value="string" /&gt;
        &lt;xs:enumeration
            value="base64" /&gt;
        &lt;xs:enumeration
            value="boolean" /&gt;
        &lt;xs:enumeration
            value="int" /&gt;
        &lt;xs:enumeration
            value="decimal" /&gt;
        &lt;xs:enumeration
            value="date" /&gt;
        &lt;xs:enumeration
            value="dateTime" /&gt;
        &lt;xs:enumeration
            value="anyType" /&gt;
        &lt;!-- any of the above (e.g. string, int, etc) --&gt;
    &lt;/xs:restriction&gt;
&lt;/xs:simpleType&gt;

<!-- cooresponding xsd type --&gt;
&lt;xs:simpleType
    name="SoapType"&gt;
    &lt;xs:restriction
        base="xs:string"&gt;
        &lt;xs:enumeration
            value="xs:base64Binary" /&gt;
        &lt;xs:enumeration
            value="xs:boolean" /&gt;
        &lt;xs:enumeration
            value="xs:decimal" /&gt;
        &lt;xs:enumeration
            value="xs:int" /&gt;
        &lt;xs:enumeration
            value="xs:string" /&gt;
        &lt;xs:enumeration
            value="xs:date" /&gt;
        &lt;xs:enumeration
            value="xs:dateTime" /&gt;
        &lt;xs:enumeration
            value="xs:anyType" /&gt;
        &lt;!--
            can be id, boolean, decimal, int, string,
            date, dateTime
        --&gt;
    &lt;/xs:restriction&gt;
&lt;/xs:simpleType&gt;

<!-- supported type formats --&gt;
&lt;xs:simpleType
    name="FieldFormat"&gt;
    &lt;xs:restriction
        base="xs:string"&gt;
        &lt;xs:enumeration
            value="string" /&gt;
        &lt;xs:enumeration
            value="password" /&gt;
        &lt;xs:enumeration
            value="percent" /&gt;
        &lt;xs:enumeration
            value="phone" /&gt;
        &lt;!--
            xsd:enumeration value="date"/&gt; date
            formats???
        --&gt;
    &lt;/xs:restriction&gt;
&lt;/xs:simpleType&gt;</pre>

```

```

        value="url" />
    <xs:enumeration
        value="email" />
    <xs:enumeration
        value="currency" />
</xs:restriction>
</xs:simpleType>
<!--
possible values form a well defined collection
-->
<xs:complexType
    name="FieldRestriction">
    <xs:choice>
        <!-- value is restricted to a range of values -->
        <xs:element
            name="value-range"
            type="tns:ValueRange" />
        <!-- value is restricted to a set of values -->
        <xs:element
            name="value-set"
            type="tns:ValueSet" />
    </xs:choice>
</xs:complexType>

<!-- possible values form a set -->
<xs:complexType
    name="ValueSet">
    <xs:sequence>
        <xs:element
            name="entry"
            type="tns:ValueSetEntry"
            maxOccurs="unbounded" />
    </xs:sequence>
<!--
is the set of values open or closed to
additions
-->
<xs:attribute
    name="restricted"
    type="xs:boolean"
    use="optional"
    default="true" />
</xs:complexType>
<xs:complexType
    name="ValueSetEntry">
    <xs:sequence>
        <xs:element
            name="label"
            type="xs:string"
            minOccurs="0" />
        <!--
value must be parsable for specified FieldType
-->
        <xs:element
            name="value"
            type="xs:string" />
    </xs:sequence>
</xs:complexType>
<!--
possible values are within a defined range
-->
<xs:complexType
    name="ValueRange">
    <xs:sequence>
        <!--
min and max must be parsable for specified
FieldType
-->
        <xs:element
            name="min"
            type="xs:string"
            minOccurs="0" />
        <xs:element
            name="max"
            type="xs:string"
            minOccurs="0" />
    </xs:sequence>
</xs:complexType>

```

```

<!--
      e.g. for FieldType 'int' with min=0, max = 4,
      and step=2, the only allowed field values are
      0, 2, and 4
-->
<xs:element
      name="step"
      type="xs:string"
      minOccurs="0"
      default="1" />
</xs:sequence>
</xs:complexType>
<!--
      value is restricted in length or regular
      expression
-->
<xs:complexType
      name="ValueRestriction">
    <xs:sequence>
      <xs:element
          ref="tns:length"
          minOccurs="0" />
      <xs:element
          ref="tns:min-length"
          minOccurs="0" />
      <xs:element
          ref="tns:max-length"
          minOccurs="0" />
      <xs:element
          ref="tns:pattern"
          minOccurs="0" />
    </xs:sequence>
  </xs:complexType>
<xs:complexType
      name="ValueAttrib">
  <xs:complexContent>
    <xs:extension
      base="xs:anyType">
      <xs:attribute
          name="value"
          use="required" />
      <xs:attribute
          name="fixed"
          type="xs:boolean"
          use="optional"
          default="false" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType
      name="NumAttrib">
  <xs:complexContent>
    <xs:restriction
      base="tns:ValueAttrib">
      <xs:attribute
          name="value"
          type="xs:nonNegativeInteger"
          use="required" />
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>

<!-- values conform to a regular expression -->
<xs:complexType
      name="Pattern">
  <xs:complexContent>
    <xs:restriction
      base="tns:ValueAttrib">
      <xs:attribute
          name="value"
          type="xs:string"
          use="required" />
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
<xs:element

```

```

        name="length"

id="_dcs_markdown_workspace_Transform_htmlout_0_com.ibm.wci.cdk.doc_cdk_schemas_length"
    type="tns:NumAttrib" />
<xs:element
    name="min-length"

id="_dcs_markdown_workspace_Transform_htmlout_0_com.ibm.wci.cdk.doc_cdk_schemas_minLength"
    type="tns:NumAttrib" />
<xs:element
    name="max-length"

id="_dcs_markdown_workspace_Transform_htmlout_0_com.ibm.wci.cdk.doc_cdk_schemas_maxLength"
    type="tns:NumAttrib" />
<xs:element
    name="pattern"

id="_dcs_markdown_workspace_Transform_htmlout_0_com.ibm.wci.cdk.doc_cdk_schemas_pattern"
    type="tns:Pattern" />

<!-- ...Descriptors -->
<!-- ***** -->
<!--
    operationType allows defining endpoint location
    on a per operations basis.
-->
<xs:complexType
    name="operationType">
    <xs:sequence>
        <xs:element
            name="endpoint-location"
            type="xs:string" />
    </xs:sequence>
    <xs:attribute
        name="name">
        <xs:simpleType>
            <xs:restriction
                base="xs:string">
                <xs:enumeration
                    value="testConnection" />
                <xs:enumeration
                    value="listObjects" />
                <xs:enumeration
                    value="describeObject" />
            </xs:restriction>
        </xs:simpleType>
    </xs:attribute>
</xs:complexType>
</xs:schema>

```

**ci-connector-api.xsd** - Before you can access an endpoint, your application needs to be able to talk with the appropriate connector using calls from the connector's API. This file describes the request/response types for the TestConnection, ListObjects and DescribeObject API's. Here is the `ci-connector-api.xsd` file:

```

<xs:schema
    id="_dcs_markdown_workspace_Transform_htmlout_0_com.ibm.wci.cdk.doc_cdk_schemas_ci-cdk-api"
    version="1.0"
    targetNamespace="http://www.approuter.com/schemas/cdk/api/"
    xmlns:tns="http://www.approuter.com/schemas/cdk/api/"
    xmlns:ccc="http://www.approuter.com/schemas/cdk/config/"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:jaxb="http://java.sun.com/xml/ns/jaxb"
    xmlns:xjc="http://java.sun.com/xml/ns/jaxb/xjc"
    jaxb:extensionBindingPrefixes="xjc"
    jaxb:version="2.0"
    elementFormDefault="qualified">
    <xs:import
        namespace="http://www.approuter.com/schemas/cdk/config/"
        schemaLocation="ci-connector-config.xsd" />
    <xs:annotation>
        <xs:appinfo>
            <jaxb:schemaBindings>
                <jaxb:package
                    name="com.approuter.studio.connectors.cdk.api" />
            </jaxb:schemaBindings>
        </xs:appinfo>
    </xs:annotation>

```

```

        </xs:appinfo>
    </xs:annotation>
    <xs:complexType
        name="TestConnection">
        <xs:sequence>
            <xs:element
                name="endpoint"
                type="ccc:EndpointForm" />
        </xs:sequence>
    </xs:complexType>
    <xs:complexType
        name="TestConnectionResponse">
        <xs:sequence>
            <xs:element
                name="success"
                type="xs:boolean" />
            <xs:element
                name="message"
                type="xs:string" />
        </xs:sequence>
    </xs:complexType>
    <xs:complexType
        name="ListObjects">
        <xs:sequence>
            <xs:element
                name="endpoint"
                type="ccc:EndpointForm" />
            <xs:element
                name="operation"
                type="xs:string"
                minOccurs="1" />
        </xs:sequence>
    </xs:complexType>
    <xs:complexType
        name="ListObjectsResponse">
        <xs:sequence>
            <xs:element
                name="objectType"
                type="tns:ObjectType"
                minOccurs="1"
                maxOccurs="unbounded" />
        </xs:sequence>
    </xs:complexType>
    <xs:complexType
        name="ObjectType">
        <xs:simpleContent>
            <xs:extension
                base="xs:string">
                <xs:attribute
                    name="label"
                    type="xs:string"
                    use="optional" />
            </xs:extension>
        </xs:simpleContent>
    </xs:complexType>
    <xs:complexType
        name="DescribeObject">
        <xs:sequence>
            <xs:element
                name="endpoint"
                type="ccc:EndpointForm"
                minOccurs="1" />
            <xs:element
                name="objectType"
                type="xs:string"
                minOccurs="1" />
            <xs:element
                name="operation-name"
                type="xs:string" />
        </xs:sequence>
    </xs:complexType>
    <xs:complexType
        name="DescribeObjectResponse">
        <xs:sequence>
            <xs:element
                name="object"

```

```

        type="ccc:ObjectDescriptor" />
<xs:element
        name="responseObject"
        type="ccc:ObjectDescriptor" />
</xs:sequence>
<!-- local part name of the derived type --&gt;
&lt;xs:attribute
        name="name"
        type="xs:string" /&gt;
&lt;xs:attribute
        name="description"
        type="xs:string" /&gt;
<!-- namespace of derived type --&gt;
&lt;xs:attribute
        name="typeNS"
        type="xs:string" /&gt;
<!-- namespace of base/abstract type --&gt;
&lt;xs:attribute
        name="baseTypeNS"
        type="xs:string" /&gt;
<!-- local part name of base/abstract type --&gt;
&lt;xs:attribute
        name="baseType"
        type="xs:string" /&gt;
&lt;/xs:complexType&gt;
&lt;/xs:schema&gt;</pre>

```

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 Last updated: Thursday, 2 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk\\_schemas.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk_schemas.html)

## Cast Iron CDK XML file

Your XML file defines what activities your plug-in performs. Every activity in your XML file must be mapped to an operation defined in the WSDL file.

XML has emerged as the universal language for representing and transmitting structured data that is independent of programming language, software platform, and hardware. For your development project, you can use any text editor or a XML-compliant authoring tool to create your XML file. Your file must conform to the rules of your schema files or your plug-in will fail.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk\\_xmlfiles.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk_xmlfiles.html)

## Cast Iron CDK WSDL file

A WSDL file is an XML-format file that defines network services as a set of endpoints. WSDL files describe how to access a web service and specify what operations that service performs. WSDL's are usually developed by a web service provider and may be made available through a UDDI (Universal Description, Discovery and Integration) registry.

At the outset of your project, you must import a WS-I (Web Service Interoperability)-compliant WSDL file into your development platform so your development environment can generate the objects needed to build client web service applications. Web service API's provide a set of objects or WSDL-type definitions and a set Web service operations.

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk\\_wsdl.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/cdk_wsdl.html)

## Cast Iron CDK .par file

---

Your plug-in is packaged as a .par file. Your .par is a standard .zip file that you rename and import into Studio.

The .par file contains your plug-in. It is exported from your Studio project and is where you implement the interface operations that enable you to identify and inventory objects contained in your plug-in. When your .par is delivered, it automatically expands into a directory for your plug-in.

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file:///dcs/markdown/workspace/Transform/out.html

<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.cdk.doc/par.html>

## FAQ

---

Below are some frequently asked questions that can help solve problems that may arise during your development process.

**Q.** How do I determine if my input activity is discoverable at design time?

- **A.** If input to the activity varies based on object type, you should select discoverable and use an abstract WDSL or schema element type for input.

**Q.** My schema or WSDL does not contain an abstract element type. How do I add that to my file?

- **A.** WSDL's and schema's provide a mechanism to force substitution for a particular element or type. To add an abstract element to your file, add the following `complexType` element to your WSDL or schema: `complexType name="MyObject."` Be sure you define it in the same namespace as your input types.

**Q.** Can I modify an existing connector?

- **A.** As long as the connector was built using the CDK Connector Wizard, you can update it by simply launching the Wizard and adding new activities to it or by revising existing activities.

**Q.** I have existing project. Can I run the Wizard on top of it and use the orchestrations to expose the connector activities?

- **A.** Yes. You can run the Wizard on top of existing projects, but be sure your activity names do not conflict with existing orchestration names.

**Q.** My connector is not displayed in Studio. Why?

- **A.** Many errors can be corrected by simply checking for errors. Check the log file under `Studio_Install_dir` for failures.

## Getting help

---

This section tells you how to get information on IBM and its products and how to reach sales and technical support personnel.

You can access the IBM Corporation web site at: <http://www.ibm.com>.

The site contains information about the IBM Corporation, its background, and products. The site also provides contact information for sales and technical support.

Before contacting IBM Support, verify that you have met the following criteria:

- Your company has an active maintenance contract.
- You are authorized to submit problems.
- You have the appliance serial number.
- You have the customer number that was used to purchase the appliance.

You can submit a software problem report to IBM in one of two ways:

1. Use the service request (SR) problem submission web page. You will need to sign in with your IBM user ID and password.
2. Contact IBM via telephone. Refer to this directory of worldwide contacts in the IBM Software Support Handbook for the appropriate software support phone number.

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