

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 stripes, with the 'I' having three stripes, the 'B' having six stripes, and the 'M' having three stripes. The logo is framed by a large, light blue circular graphic that is partially visible at the top and bottom edges of the page.

**IBM**

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# IBM WebSphere Cast Iron 버전 7.5.1 문서

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IBM® WebSphere® Cast Iron® 버전 7.5.1을 사용하는 데 필요한 주요 태스크를 통해 안내하는 정보를 포함합니다.

## 시작하기

### 새로운 기능

[이 릴리스의 새로운 기능](#)

### 소개 주제

[IBM Cast Iron Studio](#)

[IBM Cast Iron Express®](#)

[IBM Cast Iron Live](#)

[IBM Cast Iron 웹 관리 콘솔\(WMC\)](#)

[IBM Cast Iron 명령 인터페이스\(CLI\) 참조](#)

[IBM Cast Iron 고가용성\(HA\) 참조](#)

[IBM Cast Iron Hypervisor Edition](#)

[IBM Cast Iron 알림 참조](#)

[IBM Cast Iron Management API Guide](#)

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

### 교육 과정 수강

[IBM Education Assistant](#)

### 공통 태스크

#### 시작하기

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#### 자세한 정보

#### 지원

[IBM WebSphere Cast Iron Support](#)

#### 토론장

[IBM Cast Iron Community Forums](#)

#### 교육 및 인증 프로그램

[IBM Education Assistant](#)

#### 커뮤니티 링크

[Global WebSphere community](#)

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## 이 릴리스의 새로운 기능

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IBM® WebSphere® Cast Iron® 버전 7.5.1은 새로운 기능과 향상된 기능을 제공합니다.

IBM WebSphere Cast Iron 버전 7.5.1에는 다음 컴포넌트에 대한 새 기능과 업데이트가 있습니다.

- Studio
- 커넥터
- 관리 콘솔

## Studio

---

이 섹션은 Studio의 새 기능 및 업데이트를 나타냅니다. 커넥터의 새 기능 및 업데이트에 관한 자세한 정보는 커넥터 절을 참조하십시오.

- WorkDay Connector Project의 WSDL 마이그레이션에 대한 지원
- JIRA Connector, Insightly Connector, MS SharePoint의 지원되는 활동에 대한 개선사항.
- SAP 종속성 JCo JAR 파일 - 버전별 정보
- OData(Open Data Protocol)에 대한 변환 활동
- 새 커넥터를 다운로드할 수 있습니다. 새 커넥터에 대한 자세한 정보는 커넥터 절을 참조하십시오.

## 커넥터

---

기존 커넥터에 대한 업데이트와 함께 Studio는 이제 다음을 지원합니다.

- 목록에 추가된 새 커넥터는 다음과 같습니다.
  - Apache Cassandra 커넥터 - Cassandra에서 행 삽입, 행 업데이트, 행 삭제, 조회 실행을 수행할 수 있습니다.
  - MailChimp 커넥터 - CRUD 조작, 일괄처리 조작, 원자적 조작에서 오브젝트를 지원합니다.
  - Marketo 커넥터 - Restful 웹 서비스 API를 사용하여 상호작용합니다. 이를 통해 사용자는 양방향 데이터 레벨 통합에 액세스할 수 있습니다.
  - Sage CRM 커넥터 - CRM에서 데이터를 가져오고 통합을 위해 CRM으로 데이터를 저장/업데이트할 수 있습니다.
- JIRA Connector, Insightly Connector, MS SharePoint의 지원되는 활동에 대한 개선사항.

## 관리 콘솔

---

다음 절에서는 WMC(Web Management Console)에 대한 새 기능 및 업데이트에 대해 설명합니다.

- 보안 커넥터에 대한 에이전트 모니터링 도구
- Cast Iron 프로젝트에서 API 관리로 WSDL 푸시
- Cast Iron 프로젝트에서 API 관리로 REST API(Swagger) 푸시
- Cast Iron Docker Container에 대한 지원

## 소개

---

이 절에서는 통합 어플라이언스, Studio 및 웹 관리 콘솔을 소개합니다. 또한 템플릿 통합 프로젝트 액세스에 대한 정보와 설치 및 구성에 대한 정보도 있습니다.

- **개발 환경**  
통합 어플라이언스는 단일 제품에 데이터 통합, 변환, 라우팅, 모니터링 및 관리 기능을 결합합니다. 런타임 중에 통합 어플라이언스는 데이터베이스, 엔터프라이즈 애플리케이션, 레거시 시스템 및 비즈니스 애플리케이션 사이에서 데이터와 처리를 공유합니다.
- **통합 어플라이언스**  
통합 어플라이언스는 중복 및 핫스왑 가능 컴포넌트로 구성된 랙 마운트 가능 어플라이언스입니다.
- **웹 관리 콘솔**  
웹 관리 콘솔(WMC)은 통합 어플라이언스에서 호스트되는 브라우저 기반 애플리케이션입니다.
- **Studio**  
Studio는 통합 프로젝트를 디자인하고 빌드하는 개발 도구입니다.
- **설치 및 구성**  
이 주제에서는 통합 프로젝트를 빌드하고 실행하기 전에 완료해야 하는 설치 및 구성 단계에 대해 설명합니다.

## 개발 환경

---

통합 어플라이언스는 단일 제품에 데이터 통합, 변환, 라우팅, 모니터링 및 관리 기능을 결합합니다. 런타임 중에 통합 어플라이언스는 데이터베이스, 엔터프라이즈 애플리케이션, 레거시 시스템 및 비즈니스 애플리케이션 사이에서 데이터와 처리를 공유합니다.

## 기능

---

- 다음과 같은 산업 표준 형식에 대한 폭넓은 지원
  - XML(W3C XML 스키마, DTD 및 XML 문서)
  - 플랫 파일, 원시 텍스트 및 원시 2진 데이터 유형
  - UTF-8, US-ASCII, ISO-8859-1, SHIFT\_JIS, EBDIC-XML-US 및 EUC-JP를 포함하는 여러 문자 인코딩 지원
  - Informix®, Sybase, DB2®, MySQL, Oracle 및 Sequelink를 통한 기타 데이터베이스 시스템을 포함한 상용 데이터베이스 시스템
  - SAP IDOC 및 IBM® MQ Series와 같은 시스템 특정 프로토콜
  - 웹 서비스
- 데이터를 한 형식에서 다른 형식으로(예: 플랫 파일 데이터를 XML 데이터로) 쉽게 변환하는 기능
- 통합 어플라이언스로 처리된 모든 메시지를 보유하는 기본 제공 메시지 저장소를 수단으로 보장되는 메시지 전달
- 동기 및 비동기(요청/응답, 저장 후 전달, 발행/구독)의 다양한 애플리케이션 프로그래밍 스타일 지원
- HTTP, 보안 HTTP(HTTPS), FTP, 보안 FTP(SFTP)에 대해 구성 가능한 포트를 통한 데이터 전송 지원
- 클라이언트측 PKI 인증 – 통합 어플라이언스에서 보안 서버에 연결하는 기능 지원
- 웹 관리 콘솔(WMC) 및 명령 인터페이스(CLI)를 사용하여 네트워크의 임의 지점에서 원격으로 관리되는 기능
- 네트워크의 SMTP 기반 이메일 시스템과 SNMP(Simple Network Management Protocol) 트랩을 사용한 이메일 기반 알림 지원

## 컴포넌트

---

개발 환경에는 다음과 같은 하드웨어 및 소프트웨어 컴포넌트가 포함됩니다.

### Studio

Windows Windows 개발 환경에서 통합 프로젝트를 작성하는 데 사용되는 그래픽 도구입니다. Studio의 통합 프로젝트를 통합 어플라이언스에 공개합니다.

### 통합 어플라이언스

네트워크에 직접 연결되고 Studio를 사용하여 작성하는 통합 프로젝트를 실행하는 어플라이언스입니다.

### 웹 관리 콘솔(WMC)

통합 어플라이언스에서 프로젝트를 관리하는 데 사용하는 브라우저 기반 콘솔입니다.

### 명령 인터페이스(CLI)

통합 어플라이언스에서 프로젝트를 관리하는 데 사용할 수 있는 명령 세트입니다.

- [개발 프로세스 예제](#)  
이 주제의 단계는 통합 프로젝트의 개발 프로세스 예제를 제공합니다.

상위 주제: [소개](#)

## 개발 프로세스 예제

---

이 주제의 단계는 통합 프로젝트의 개발 프로세스 예제를 제공합니다.

1. 표준 Windows 7 시스템에서 Studio를 사용하여 통합 프로젝트를 개발하십시오.
2. Studio에서 오케스트레이션이 올바른지 확인하십시오.
3. 통합 프로젝트를 통합 어플라이언스에 공개하십시오.
4. Windows 7 시스템에서 브라우저를 여십시오. 브라우저에서 웹 관리 콘솔(WMC)을 시작하십시오. WMC에서 통합 어플라이언스에 요청을 발행하여 통합 프로젝트의 오케스트레이션 작업(인스턴스)을 배치하십시오.
5. 이벤트가 오케스트레이션 작업이 작성되고 오케스트레이션을 구성하는 활동 처리를 시작하도록 트리거합니다. 예를 들어, FTP 서버의 특정 디렉토리에 배치 중인 파일이 오케스트레이션 작업이 작성되고 처리를 시작하도록 트리거할 수 있습니다.
6. WMC에서 오케스트레이션 작업이 완료되고 오류가 발생하지 않았는지 확인하십시오.
7. Studio에서 통합 프로젝트를 수정하십시오. 예를 들어, 원래의 통합 프로젝트가 파일이 FTP 서버의 특정 디렉토리에 표시되는지 확인한 후 이제 파일을 FTP 소스 디렉토리에서 FTP 출력 디렉토리로 이동하도록 통합 프로젝트를 수정하려고 합니다.
8. Studio에서 확인 탭을 통해 각각의 영향 받은 오케스트레이션을 실행하여 프로젝트 업데이트가 올바른지 확인하십시오.
9. WMC에서 원래의 통합 프로젝트를 배치 해제하십시오.
10. 수정된 통합 프로젝트를 통합 어플라이언스에 공개하십시오.
11. WMC에서 수정된 통합 프로젝트를 배치하십시오.
12. 이벤트가 오케스트레이션 작업이 작성되고 오케스트레이션에서 활동 처리를 시작하도록 트리거합니다.
13. WMC에서 통합 프로젝트가 실행되었는지 확인하십시오.

상위 주제: [개발 환경](#)

## 통합 어플라이언스

---

통합 어플라이언스는 중복 및 핫스왑 가능 컴포넌트로 구성된 랙 마운트 가능 어플라이언스입니다.

통합 어플라이언스에서 사용할 수 있는 컴포넌트에는 결함 허용 조작을 보장하는 네트워크 포트, 하드 디스크 드라이브, RAM, 냉각 팬 및 기타 중요 컴포넌트가 포함됩니다.

웹 관리 콘솔(WMC) 및 명령 인터페이스(CLI)를 사용하여 통합 어플라이언스를 관리할 수 있습니다.

상위 주제: [소개](#)

## 웹 관리 콘솔

---

웹 관리 콘솔(WMC)은 통합 어플라이언스에서 호스트되는 브라우저 기반 애플리케이션입니다.

WMC는 웹 브라우저를 사용하여 통합 어플라이언스의 하드웨어, 오케스트레이션 및 네트워크 상태를 구성하고 모니터링할 수 있습니다.

시스템 관리자는 다음과 같은 모니터링 태스크에 WMC를 사용할 수 있습니다.

- 통합 어플라이언스 상태 정보(예: 메모리 사용량 통계, 디스크 공간 통계, CPU 상태, 팬 상태 및 전원 공급 장치 상태) 얻기
- 전체 처리 정보 개요를 얻은 후 특정 오케스트레이션을 드릴 다운하여 특정 메시지, 활동, 오류 및 기타 세부사항에 대한 포괄적인 정보 얻기
- 로그 및 오류 알림 보기

WMC 외에 명령 인터페이스(CLI)를 사용하여 많은 관리 및 모니터링 태스크를 수행할 수도 있습니다. CLI에 대한 자세한 정보는 명령 인터페이스 참조를 확인하십시오.

상위 주제: [소개](#)

## Studio

Studio는 통합 프로젝트를 디자인하고 빌드하는 개발 도구입니다.

Studio에서 비즈니스 프로세스 및 데이터 통합 솔루션을 모델링하는 오케스트레이션을 빌드합니다. Studio는 Studio 작업 공간으로 끌어와서 구성하는 활동 팔레트를 제공합니다. 런타임 중에 이러한 활동은 데이터베이스 테이블의 삽입 이벤트에 대한 폴링과 같은 조치를 수행합니다. 오케스트레이션은 하나 이상의 활동으로 구성됩니다. 통합 프로젝트에는 하나 이상의 오케스트레이션이 포함될 수 있습니다.

코드를 쓰지 않고 여러 엔드포인트를 포함하는 복합 오케스트레이션뿐만 아니라 단순 지점간 오케스트레이션을 디자인할 수 있습니다.

통합 프로젝트를 빌드한 후 이를 통합 어플라이언스에 공개합니다.

## Studio 레이아웃

Studio의 기본 분할창에는 다음 두 개의 섹션이 포함되어 있습니다.

### 작업공간

기본 Studio 분할창의 왼쪽에 표시됩니다. 엔드포인트 및 플랫폼 파일 스키마와 같은 컴포넌트를 작성할 때 컴포넌트의 특성 분할창이 작업공간에 표시됩니다. 새 오케스트레이션을 작성하는 경우, 빈 오케스트레이션이 작업공간에 표시됩니다. 활동 탭의 활동을 작업공간에 표시되는 오케스트레이션으로 끕니다. 오케스트레이션의 활동을 구성하는 경우, 활동의 구성 분할창도 이 작업공간에 표시됩니다.

### 탭

기본 Studio 분할창의 오른쪽에는 다음 탭이 표시됩니다.

- 프로젝트
  - 활동
  - 변수
  - 함수
  - 확인
- [프로젝트 탭](#)  
프로젝트 탭에는 각 컴포넌트의 폴더가 포함되어 있습니다.
  - [활동 탭](#)  
활동은 오케스트레이션의 특정 조작을 수행하며 활동 탭의 카테고리 구성됩니다.
  - [변수 탭](#)  
현재 오케스트레이션에 사용되는 변수는 변수 탭에 나열됩니다.
  - [함수 탭](#)  
활동의 입력 및 출력 매개변수 사이의 맵에 추가할 수 있는 함수가 함수 탭에 나열됩니다.
  - [확인 탭](#)  
DataPower® Cast Iron® 운영 체제를 시뮬레이션하여 프로젝트를 통합 어플라이언스에 배치하기 전에 확인 탭에서 프로젝트 내의 오케스트레이션을 테스트하고 문제를 해결할 수 있습니다.
  - [노드 및 맵핑 이해](#)  
Studio를 사용하여 빌드하는 통합 프로젝트는 BPEL4WS(business process execution language for Web Services), WSDL(web services description language) 및 기타 XML 기반 표준을 포함한 산업 표준을 기반으로 합니다.

- **매개변수 이해**

매개변수는 오케스트레이션에서 활동으로 또는 활동에서 오케스트레이션으로 전달되는 값입니다. 매개변수의 값은 오케스트레이션을 구성하는 변수를 초기화하는 데 사용됩니다.

상위 주제: [소개](#)

## 프로젝트 탭

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프로젝트 탭에는 각 컴포넌트의 폴더가 포함되어 있습니다.

프로젝트 탭에서 액세스할 수 있는 컴포넌트 폴더는 다음과 같습니다.

- 오케스트레이션
- 엔드포인트
- 플랫폼 파일 스키마
- 스타일시트
- 변환
- WSDL
- XML 스키마

프로젝트 탭 컴포넌트의 새 인스턴스를 작성하면 이 인스턴스는 해당 컴포넌트 폴더 내에 표시됩니다.

프로젝트 탭에 있는 컴포넌트의 새 인스턴스를 작성하려면 폴더(예: 엔드포인트)를 마우스 오른쪽 단추로 클릭하여 메뉴를 표시하고 작성 옵션을 선택하십시오. 그러면 컴포넌트가 해당 폴더 아래에 작성되어 표시되고 오케스트레이션, 오케스트레이션1 등의 일반 이름이 지정됩니다. 모든 컴포넌트의 이름을 통합 프로젝트와 관련해서 의미 있는 이름으로 바꿔야 합니다.

이러한 컴포넌트를 순서에 관계 없이 작성할 수 있습니다. 모든 컴포넌트가 사용 가능한지 확인하려면 오케스트레이션 정의를 시작하기 전에 플랫폼 파일 스키마를 작성하고 XML 스키마, WSDL 및 스타일시트를 업로드하십시오.

### 오케스트레이션

오케스트레이션은 통합 프로젝트의 중심 컴포넌트입니다. 오케스트레이션에는 특정 비즈니스 프로세스를 수행하는 일련의 활동이 포함되어 있습니다. 예를 들어, 오케스트레이션은 FTP 서버에서 플랫폼 파일을 가져오고 플랫폼 파일에서 데이터를 가져와서 변환한 후 그 결과를 데이터베이스에 저장할 수 있습니다. 통합 프로젝트에는 하나 이상의 오케스트레이션이 포함되어야 합니다.

### 엔드포인트

엔드포인트 컴포넌트는 프로젝트 탭의 엔드포인트 폴더에 표시되며 다양한 외부 시스템 또는 엔드포인트에 연결하는 데 필요한 연결 정보를 지정합니다. 통합 어플라이언스는 이메일(SMTP, POP), FTP, SFTP, HTTP, HTTPS, JDE, JMS, MQ, NetSuite, PeopleSoft, Salesforce.com, SAP, Siebel, Web Services 및 여러 상용 데이터베이스 시스템을 포함하여 많은 유형의 엔드포인트에 대한 연결을 지원합니다.

각각의 엔드포인트 유형에는 엔드포인트 연결 정보를 지정하는 연관된 구성 분할창이 있습니다. 예를 들어, 데이터베이스 엔드포인트의 경우, 데이터베이스 이름, 서버 이름, 사용자 계정 및 비밀번호를 제공해야 합니다. 그러나 테스팅 환경에서 프로덕션 환경으로 이동할 때 다른 구성 정보 세트를 지정하려고 할 수 있습니다. Studio에서 구성 정보를 정의하는 구성 특성(또는 이름/값 쌍)을 정의하여 하나의 연결 정보 세트에서 다른 세트로 이동하는 과정(예: 하나의 데이터베이스에서 다른 데이터베이스로)을 간소화할 수 있습니다.

### 플랫폼 파일 스키마

플랫폼 파일 스키마는 플랫폼 파일의 구문 분석 규칙, 콘텐츠 및 구조를 정의합니다. 플랫폼 파일은 비XML 텍스트 데이터(예: 심포 및 탭 구분 파일과 EDI)이거나 산업 특정 텍스트 형식(예: 의료 산업의 경우 HL7(Health Level 7) 형식)입니다.

구분 기호를 사용하여 하나의 레코드 또는 필드를 다른 레코드 또는 필드와 구별하는 가변 길이 플랫폼 파일 형식 지원에 더하여 Studio는 또한 고정 길이 레코드 및 필드(예: COBOL 사본 형식)도 지원합니다. Studio에서 플랫폼 파일 스키마 편집기를 사용하여 텍스트 파일 및 그룹 유형에 대한 정의를 작성할 수 있습니다.

#### 스타일시트

XSLT 스타일시트는 XML 데이터를 한 형식에서 다른 형식으로 변환하는 방법을 정의합니다. XSLT 스타일시트를 Studio로 업로드하고 런타임 중에 XSLT 스타일시트를 사용하는 오케스트레이션에 XSLT 적용 활동을 추가할 수 있습니다.

#### 변환

변환 폴더에는 독립형 맵이 포함되어 있습니다. 독립형 맵은 소스 및 대상 노드 사이에 있는 하나 이상의 맵핑 세트를 표시합니다.

예를 들어, IncomingOrder라는 소스 XML 스키마와 ShippingOrder라는 대상 XML 스키마 사이의 맵핑 세트를 포함하는 myMap이라는 독립형 맵을 작성할 수 있습니다. 독립형 맵을 사용하여 동일한 오케스트레이션 또는 동일한 프로젝트의 다른 오케스트레이션에 많은 맵 변수 활동을 작성할 수 있습니다. 독립형 맵을 변환 폴더에서 오케스트레이션의 비어 있는 노드로 끌어서 독립형 맵에서 변수 맵핑 활동을 작성할 수 있습니다. 독립형 맵을 기반으로 하는 변수 맵핑 활동이 작성됩니다.

#### WSDL

WSDL(Web Services Description Language)은 웹 서비스를 설명하는 XML 문서입니다. 웹 서비스 및 웹 서비스에 사용 가능한 조작에 액세스하는 방법을 정의합니다.

#### XML 스키마

XML 스키마는 XML 데이터의 콘텐츠와 구조를 정의합니다. XML 스키마는 일반적으로 .xsd 확장자로 끝나는 파일에 저장됩니다. XML 스키마를 프로젝트에 업로드한 후에는 해당 XML 스키마를 사용하여 오케스트레이션의 활동에 사용되는 변수를 작성할 수 있습니다.

상위 주제: [Studio](#)

## 활동 탭

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활동은 오케스트레이션의 특정 조작을 수행하며 활동 탭의 카테고리로 구성됩니다.

활동은 다음과 같은 일반 카테고리로 구성됩니다.

#### 변환 활동

변환 활동은 데이터를 한 형식에서 다른 형식으로 변환합니다. 예를 들어, 플랫폼 파일 읽기 활동은 플랫폼 파일 데이터를 XML 데이터로 변환합니다. 변환 활동은 활동 탭의 변환 폴더 아래에 나열됩니다.

#### 로직 활동

로직 활동은 제어 플로우 로직, 분기 또는 루핑(예: For Each 및 While Loop 활동)과 같은 오케스트레이션의 처리 플로우에 영향을 미칩니다. 로직 활동은 활동 탭의 로직 폴더 아래에 나열됩니다.

#### 유틸리티 활동

유틸리티 활동은 현재 오케스트레이션 작업(또는 오케스트레이션의 인스턴스)에서 시작하거나 작동하는 유틸리티입니다. 유틸리티 활동은 활동 탭의 유틸리티 폴더 아래에 나열됩니다.

#### 커넥터 활동

커넥터 활동은 오케스트레이션과 연관된 다양한 외부 시스템에서 조작을 수행합니다. 연결 지향 활동은 데이터베이스, 이메일, FTP, HTTP, JMS, Salesforce.com, Siebel, MQ, SAP 및 웹 서비스와 같은 시스템 유형을 따라 이름 지정된 다양한 폴더로 그룹화됩니다.



활동을 사용하려면 활동 아이콘을 활동 탭에서 작업공간의 오케스트레이션으로 끄십시오. 활동의 스펙을 구성하려면 오케스트레이션에서 아이콘을 클릭하십시오. 구성 분할창이 오케스트레이션 아래에 표시됩니다.

구성 분할창에는 각 활동의 구성을 안내하는 활동 특정 체크리스트가 있습니다. 대부분의 활동 구성의 핵심 파트에는 입력 및 출력 매개변수의 맵핑이 포함됩니다.

상위 주제: [Studio](#)

## 변수 탭

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현재 오케스트레이션에 사용되는 변수는 변수 탭에 나열됩니다.

변수는 특정 오케스트레이션과 관련하여 데이터 소스를 오케스트레이션에 바인드하고 오케스트레이션 처리의 결과로 작성된 데이터 값을 전달(또는 조작)하는 데 사용됩니다. 오케스트레이션의 변수는 일반적으로 오케스트레이션을 구성하는 특정 활동의 매개변수에 의해 초기화됩니다.

변수는 기본 데이터(예: 문자열 또는 정수 값)를 저장하거나 전체 XML 스키마 또는 XML 스키마의 단편을 표시할 수 있습니다. Studio에서 맵핑 편집기의 복사 단추를 사용하여 오케스트레이션에 대한 변수를 자동으로 작성할 수 있습니다. Studio의 변수 탭에서 XML 스키마의 단편(또는 하위 노드)을 스키마 분할창에서 변수 분할창으로 끌어서 XML 스키마의 단편을 기반으로 변수를 작성할 수 있습니다.

상위 주제: [Studio](#)

## 함수 탭

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활동의 입력 및 출력 매개변수 사이의 맵에 추가할 수 있는 함수가 함수 탭에 나열됩니다.

활동의 입력 및 출력 매개변수 간 맵핑에 함수를 추가하여 여러 오케스트레이션을 플로우하는 데이터를 변경할 수 있습니다. 함수 탭에서 사용할 수 있는 함수를 사용하여 다음 조치를 완료할 수 있습니다.

- 계산
- 데이터 유형 변환
- 데이터 재형식화
- 여러 데이터 필드를 단일 필드로 결합

Studio와 함께 사용할 수 있는 함수 목록과 입력 및 출력 매개변수를 포함하는 각 함수에 대한 참조 정보는 Studio 온라인 도움말의 함수 참조 맵핑 섹션을 참조하십시오.

함수 탭에서 원하는 함수를 맵핑 편집기의 입력 및 출력 노드 사이의 링크 위로 끕니다. 필요한 기능을 표준 Studio 함수 중 하나에서 사용할 수 없는 경우, 사용자 고유 정의 함수를 작성할 수 있습니다. 자세한 정보는 Studio 온라인 도움말의 사용자 정의 함수 맵핑 섹션을 참조하십시오.

상위 주제: [Studio](#)

## 확인 탭

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DataPower® Cast Iron® 운영 체제를 시뮬레이션하여 프로젝트를 통합 어플라이언스에 배치하기 전에 확인 탭에서 프로젝트 내의 오케스트레이션을 테스트하고 문제를 해결할 수 있습니다.

테스트 실행을 초기화할 때 단일 오케스트레이션 또는 프로젝트의 모든 오케스트레이션을 시작할 수 있습니다. Studio는 각각의 오케스트레이션에 대해 하나의 오케스트레이션 작업을 실행합니다. 오케스트레이션을 시작 및 중지하고 Studio 도구 모음 또는 확인 탭에서 오케스트레이션 모니터링 로그를 볼 수 있습니다.

오케스트레이션이 올바르지 않은 경우, 메시지 대화 상자에 가능한 해결책이 표시됩니다. 작업공간에서 Studio는 오케스트레이션의 각 활동이 데이터를 처리 중일 때 활동을 강조표시합니다. Studio가 오케스트레이션을 실행하면 확인 탭은 활동 이름, 처리 상태, 변수/매개변수 이름 및 변수/매개변수 데이터와 같은 오케스트레이션 작업 세부사항을 트리 보기로 제공합니다. 오류가 발생하는 경우, Studio는 오류가 발생한 노드를 강조표시합니다. 노드를 클릭하면 오류의 위치로 이동하여 오케스트레이션의 다른 인스턴스를 실행하기 전에 문제를 해결할 수 있습니다.

트리 보기에서 노드를 클릭하면 Studio는 특성 분할창에 노드에 대응하는 태스크 체크리스트를 표시합니다. 예를 들어, 활동 노드를 클릭하면 Studio는 특성 분할창에 활동에 대한 구성 패널을 표시합니다. 출력 맵핑 노드를 클릭하면 Studio는 특성 분할창에 출력 맵핑 패널을 표시합니다. 맵핑 변수 또는 매개변수를 클릭하면 데이터가 확인 탭의 변수/매개변수 메시지 데이터 섹션에 표시됩니다.

Studio는 각각의 오케스트레이션에 대해 하나의 오케스트레이션 작업만 실행하지만 동일한 오케스트레이션을 여러 번 시작할 수 있습니다. 확인 탭은 별도의 인스턴스 아래에 동일한 오케스트레이션의 각 실행 결과를 표시합니다. 예를 들어, 인스턴스 #1과 인스턴스 #2가 있습니다. 동일한 오케스트레이션의 다른 인스턴스를 실행하려면 먼저 오케스트레이션 작업이 완료되도록 허용해야 합니다.

참고: Studio는 런타임 테스트 결과를 지속하지 않습니다. 오케스트레이션 탭을 닫으면 오케스트레이션의 런타임 결과가 유실됩니다.

## 추가 요구사항

오케스트레이션의 활동에 따라 Studio가 오케스트레이션 작업을 완료하려면 더 많은 입력이 필요할 수 있습니다.




예를 들어, 데이터베이스 활동이 포함된 오케스트레이션에서는 Studio에서 오케스트레이션을 실행하기 전에 데이터베이스 자산을 생성해야 합니다. 이는 통합 어플라이언스에서 오케스트레이션을 실행하기 전에 WMC에서 이를 수행해야 하는 것과 마찬가지로입니다. 오케스트레이션에 HTTP 수신 요청 활동이 포함된 경우에는 메시지를 지정된 URL에 게시해야 합니다. Studio는 메시지를 게시하는 데 사용할 수 있는 HTTP 게시 유틸리티를 제공합니다. 오케스트레이션에 FTP 풀 활동이 포함된 경우에는 Studio가 오케스트레이션을 실행할 수 있으려면 먼저 파일을 지정된 위치에 배치해야 합니다. Studio는 오케스트레이션을 실행하기 전에 이 정보를 프롬프트합니다.

확인 탭에서 통합 어플라이언스에서의 런타임을 시뮬레이션할 수 있으므로 실제로 통합 어플라이언스에 배치하기 전에 Studio에서 Kerberos 프로토콜 설정을 지정하여 설정을 테스트할 수도 있습니다. Studio에서 이러한 설정을 지정해도 통합 어플라이언스에서의 런타임에는 영향을 미치지 않습니다. 통합 어플라이언스가 통신 중인 서버를 인증할 수 있도록 허용하려면 WMC에서 Kerberos 프로토콜 설정을 지정해야 합니다. 통합 어플라이언스의 Kerberos 프로토콜 설정 지정에 대한 자세한 정보는 WMC 온라인 도움말을 참조하십시오.

## 확인 탭 도구 모음 탐색

다음 표에서는 확인 탭 도구 모음에 대해 설명합니다.

표 1.

아이콘	설명
	열린 오케스트레이션을 시작합니다. Studio에서 오케스트레이션 작업을 실행할 수 있으려면 먼저 오케스트레이션이 유효해야 합니다.
	실행 중인 오케스트레이션 작업을 즉시 중지합니다. Studio는 오케스트레이션 작업을 중지하기 전에 완료하도록 허용하지 않습니다.
	프로젝트에서 아직 실행 중이지 않은 모든 올바른 오케스트레이션을 시작합니다. 이 아이콘을 클릭할 때 오케스트레이션이 이미 실행 중인 경우, Studio는 오케스트레이션을 재실행하지 않습니다.

아이콘	설명
	모든 실행 중인 오케스트레이션 작업을 즉시 중지합니다. Studio는 오케스트레이션 작업을 중지하기 전에 완료하도록 허용하지 않습니다.
	오케스트레이션 모니터링 데이터를 테이블 또는 텍스트 형식으로 표시합니다.
	작업공간에서 오케스트레이션 작업의 실행 경로에서 활동을 강조표시하며, 이를 통해 오케스트레이션 작업을 완료하는 데 사용되는 로직 Studio를 따를 수 있습니다. 입력 및 오케스트레이션 로직에 따라 다른 인스턴스에는 다른 경로가 있을 수 있습니다. 강조표시된 경로 제공 및 제공 안함을 전환하려면 이 아이콘을 클릭하십시오.
	선택된 인스턴스의 결과를 입력 맵핑 및 출력 맵핑에 지정합니다. 그러면 특성 분할창에서 테스트를 실행할 때 Studio가 입력 및 출력을 오케스트레이션 작업의 결과로 채웁니다.
	오케스트레이션 세부사항 트리에서 하나 이상의 선택된 인스턴스를 삭제합니다. 여러 인스턴스를 삭제하려면 Shift 키 또는 Ctrl 키를 누른 채 삭제하려는 인스턴스를 선택하고 아이콘을 클릭하십시오.
	오케스트레이션 세부사항 트리에서 선택된 노드 아래에 있는 모든 노드를 펼칩니다.
	오케스트레이션 세부사항 트리에서 선택된 노드 아래에 있는 모든 노드를 접습니다.
	오케스트레이션 세부사항 트리에서 선택된 노드 아래에 있는 단일 노드를 펼칩니다.
	오케스트레이션 세부사항 트리에서 선택된 노드 아래에 있는 단일 노드를 접습니다.

상위 주제: [Studio](#)

## 노드 및 맵핑 이해

Studio를 사용하여 빌드하는 통합 프로젝트는 BPEL4WS(business process execution language for Web Services), WSDL(web services description language) 및 기타 XML 기반 표준을 포함한 산업 표준을 기반으로 합니다.

제품을 사용하기 위해 이러한 표준의 기술적 세부사항을 알 필요는 없습니다. 그렇지만 Studio를 사용하여 작업하면 입력 및 출력의 XML 콘텐츠를 보게 됩니다. 통합 어플라이언스에서 실행 중인 오케스트레이션이 메시지를 최적화된 XML 형식으로 사용, 처리 및 전달하기 때문에 모든 데이터와 해당 정의는 XML 문서에서처럼 노드의 계층 구조로 제공됩니다.

예를 들어, 데이터베이스 테이블의 열은 노드로 표시됩니다. 다른 예로 플랫폼 파일 스키마는 Studio에서 모든 하위로 포함된 루트 노드로 구성된 트리 구조에서 일련의 레코드, 필드 또는 그룹 노드로 정의됩니다.

Studio의 노드 유형 간에는 두 가지 기본 차이점이 있습니다.

- 구조 노드는 구조에 대한 정보만 전달하는 노드입니다. 구조 노드의 예로 레코드 정의(플랫 파일 스키마에 대해 정의 됨)가 있습니다. 구조 노드는 다른 구조 노드와 데이터를 포함하는 노드를 포함할 수 있습니다.
- 데이터 노드는 데이터를 포함할 수 있는 노드입니다.

일반적인 전체 노드 표시에서 맨 위에 있는 노드는 다른 모든 노드를 포함한다는 의미에서 종종 루트 노드-루트라고 불립니다. 순차 노드는 구조 노드와 데이터 노드 둘 다로 구성된 하위 노드입니다.

오케스트레이션 디자인의 핵심 부분은 노드 간의 맵핑 지정, 즉, 오케스트레이션 처리 과정에서 노드와 노드에 포함된 데이터를 사용하고 변환하는 방법을 정의하는 것입니다.

몇몇 XML 특정 특성이 노드와 연관될 수 있습니다. 이러한 특성은 트리에서 노드에 인접한 추가 아이콘으로 표시됩니다. 해당되는 특성은 다음과 같습니다.

- 반복 - 노드가 반복될 수 있음(지정된 횟수만큼 또는 무한하게)을 표시합니다. 반복 노드가 반복될 때마다 노드가 발생합니다.
- Nillable - 이 특성이 연관되어 있는 데이터 노드의 속성이 애플리케이션에 의해 “nil”로 설정될 수 있는지 여부를 표시하는 부울 특성입니다. nillable 메커니즘은 비어 있는 비필수 데이터 요소 대 널 데이터 값을 전달하는 비필수 데이터 요소를 식별하는 방법으로 XML 스키마 권장사항에서 정의됩니다.
- 선택사항 - 선택적 노드가 존재하는지 여부를 표시합니다.

Studio 활동에는 오케스트레이션과 관련하여 실제 매개변수를 변수에 매핑하는 방법과 변수를 오케스트레이션에서 처리하는 방법을 정의하기 위해 디자인 시 구성해야 하는 임베디드 맵이 포함되어 있습니다.

매퍼 편집기의 오른쪽 분할창에 있는 노드 트리의 특성과 노드 구조는 왼쪽 분할창의 노드가 오른쪽 분할창에 매핑될 수 있는지 여부를 판별합니다.

상위 주제: [Studio](#)

## 매개변수 이해

매개변수는 오케스트레이션에서 활동으로 또는 활동에서 오케스트레이션으로 전달되는 값입니다. 매개변수의 값은 오케스트레이션을 구성하는 변수를 초기화하는 데 사용됩니다.

매개변수는 입력 매개변수 또는 출력 매개변수 중 하나입니다. 활동에는 입력 매개변수만, 출력 매개변수만 또는 둘 다 포함될 수 있습니다.

입력 매핑 태스크에서 오케스트레이션의 변수를 활동의 입력 매개변수에 매핑합니다. 런타임 중에 변수 값은 활동의 입력 매개변수에 전달되어 활동에서 사용됩니다. 예를 들어, 런타임 중에 FTP 파일 넣기 활동은 파일 이름이라는 입력 매개변수에 제공된 이름과 데이터라는 입력 매개변수에 제공된 이름을 사용하여 파일을 작성합니다. 파일 이름 및 데이터 입력 매개변수의 값은 오케스트레이션의 변수에 있는 데이터로 채워집니다.

출력 매개변수는 활동의 리턴값입니다. 예를 들어, FTP 디렉토리 폴 활동은 다음 표에 표시된 대로 세 개의 출력 매개변수를 오케스트레이션에 전달하며 각각의 매개변수는 오케스트레이션에서 변수를 초기화하는 데 사용될 수 있습니다. 출력 매개변수는 활동에서 오케스트레이션으로 매핑될 수 있습니다.

표 1.

활동	매개변수	설명
FTP 디렉토리 폴	파일 이름	FTP 서버에서 얻은 파일의 이름입니다.
FTP 디렉토리 폴	데이터	파일의 콘텐츠를 포함하는 문자열입니다.
FTP 디렉토리 폴	시간소인	파일의 시간소인입니다.

상위 주제: [Studio](#)

## 설치 및 구성

이 주제에서는 통합 프로젝트를 빌드하고 실행하기 전에 완료해야 하는 설치 및 구성 단계에 대해 설명합니다.

### 통합 어플라이언스

통합 어플라이언스는 사전 설치된 DataPower® Cast Iron® 운영 체제와 함께 제공됩니다. 그러나 통합 프로젝트를 통합 어플라이언스에 공개하고 배치하기 전에 통합 어플라이언스를 설치하고 구성해야 합니다. 추가 커넥터 라이선스 설치가 포함될 수도 있습니다. 자세한 정보는 설치 안내서를 참조하십시오. 통합 어플라이언스가 설치 및 구성되고 네트워크에서 사용 가능하면 다음 URL을 브라우저의 주소 필드에 입력하여 웹 관리 콘솔을 가져올 수 있습니다. <https://hostname>

여기서 호스트 이름은 통합 어플라이언스의 이름입니다. 이 이름은 설치 프로세스 중에 통합 어플라이언스에 지정됩니다.

웹 관리 콘솔은 브라우저 창의 로그인 화면에 열립니다. 기본 로그인 계정과 비밀번호는 `admin/!n0r1t5@c`입니다.

또한 명령 인터페이스를 통해 통합 어플라이언스에 액세스할 수도 있습니다.

## Studio

통합 어플라이언스에서 실행할 통합 프로젝트 작성을 시작하려면 Windows 개발 워크스테이션에 Studio를 설치해야 합니다. Windows 개발 워크스테이션은 일부 최소 하드웨어 및 소프트웨어 요구사항을 충족해야 합니다. 자세한 정보는 설치 안내서를 참조하십시오.

Studio를 설치하면 솔루션 저장소에 로그인하여 TIP(Template Integration Project)의 저장소에 액세스할 수 있습니다. 각각의 TIP는 특정 통합 프로젝트 시나리오를 다룹니다. 예를 들어, Salesforce.com 엔드포인트에서 데이터베이스 엔드포인트까지 데이터 통합에 대한 TIP를 찾을 수 있습니다. 솔루션 저장소에서 TIP를 선택하여 워크스테이션에 TIP를 다운로드 하면 마법사가 열리고 구성 단계를 안내합니다.

참고: 솔루션 저장소에는 인증되지 않은 TIP뿐만 아니라 인증된 TIP도 포함되어 있습니다. 솔루션 저장소에 액세스할 수 있는 모든 사용자가 TIP를 업로드할 수 있습니다. TIP 작성, 수정 및 검색에 대한 자세한 정보는 Studio 온라인 도움말을 참조하십시오.

상위 주제: [소개](#)

## 배치 개념

Studio에서 관리 콘솔을 사용하여 클라우드에 배치하거나 웹 관리 콘솔을 사용하여 통합 어플라이언스에 배치하는 통합 프로젝트를 작성합니다. 프로젝트 배치에는 프로젝트의 오케스트레이션에 정의된 처리를 실행하는 데 필요한 모든 런타임 컴포넌트가 포함되어 있습니다.

프로젝트를 개발할 때 배치에 대해 유의해야 할 두 가지 중요한 개념이 있습니다.

- 공개와 배치는 두 개의 구별되는 단계입니다. 공개는 Studio의 프로젝트를 통합 환경(클라우드 또는 통합 어플라이언스) 또는 다른 중간 위치로 승격하는 동작입니다. 프로젝트는 배치될 때까지 통합 환경에서 실행되지 않습니다.
- 프로젝트에는 완전히 다른 환경(개발, 테스트, 프로덕션)을 지원하는 여러 구성이 있을 수 있습니다. Studio를 사용하여 프로젝트의 구성 특성을 작성하면 특성을 다른 환경에 바인딩할 수 있기 때문에 배치 시 더 큰 유연성을 제공합니다.

통합 어플라이언스는 Studio의 프로젝트를 통합 어플라이언스로 가져오기 위한 다음과 같은 두 가지 옵션을 제공합니다.

- 프로젝트를 통합 어플라이언스에 직접 공개할 수 있습니다.
- 프로젝트를 Studio에서 스테이징 위치로 내보낸 후 통합 어플라이언스로 업로드할 수 있습니다.

Studio에서 내보낸 후 나중에 통합 어플라이언스로 업로드하는지 또는 Studio에서 통합 어플라이언스에 직접 공개하는지 여부에 관계없이 프로젝트는 배치될 때까지 통합 어플라이언스에서 실행되지 않습니다.

- [구성 정보](#)  
프로젝트를 통합 어플라이언스에 공개합니다. 그러면 WMC에서 프로젝트 구성을 실행합니다. 일단 프로젝트를 통합 어플라이언스에 공개하면 WMC는 기본 프로젝트 구성을 작성합니다. 기본 프로젝트 구성 설정은 프로젝트의 모든 오케스트레이션을 사용하고 프로젝트를 빠르게 배치할 수 있습니다.

## 구성 정보

프로젝트를 통합 어플라이언스에 공개합니다. 그러면 WMC에서 프로젝트 구성을 실행합니다. 일단 프로젝트를 통합 어플라이언스에 공개하면 WMC는 기본 프로젝트 구성을 작성합니다. 기본 프로젝트 구성 설정은 프로젝트의 모든 오케스트레

이션을 사용하고 프로젝트를 빠르게 배치할 수 있습니다.

통합 어플라이언스에서 동일한 프로젝트의 여러 구성을 작성할 수 있습니다. 구성 특성을 사용하여 엔드포인트의 연결 정보를 지정한 경우, 각각의 구성을 서로 다른 엔드포인트에 연결할 수 있습니다. 예를 들어, 하나의 구성이 프로덕션 데이터베이스에 연결되어 있는 동안 다른 구성은 테스트 데이터베이스에 연결될 수 있습니다. 프로젝트 구성은 WMC를 사용하여 작성되며 기본적으로 작성될 때 배치되지 않습니다.

## 공개

공개는 특정 통합 프로젝트(Studio의 이름 지정된 프로젝트)를 번들하고 프로젝트를 통합 어플라이언스에 배치하기 위해 준비하는 프로세스입니다. 프로젝트를 공개하면 Studio는 프로젝트의 실행 가능한 버전을 작성하여 이를 지정한 통합 어플라이언스로 전송합니다.

### 내보내기

내보내기는 프로젝트를 압축하는 공개와 매우 유사한 프로세스이지만 결과를 통합 어플라이언스에 푸시하는 대신에 나중에 통합 어플라이언스에 업로드할 수 있도록 파일에 이름을 제공하고 저장합니다. 예를 들어, 이를 통해 품질 제어 팀이 추가 테스트를 수행할 수 있습니다.

### 업로드

업로드는 Studio에서 내보낸 프로젝트를 통합 어플라이언스로 이동하는 프로세스입니다. WMC에서 이 태스크에 대한 메뉴를 선택할 수 있습니다.

## 배치

배치는 통합 어플라이언스가 실제 통합을 수행할 수 있도록 필요한 모든 런타임 컴포넌트를 인스턴스화하는 프로세스입니다. 배치는 프로젝트가 통합 어플라이언스에 공개되었거나 업로드되었다고 가정합니다. 프로젝트 구성을 배치하려면 웹 관리 콘솔을 사용하십시오.

## 구성 특성 이해

구성 특성은 개발 환경에서 프로덕션 환경으로 이동할 때 배치 프로세스를 간소화합니다. 구성 세부사항을 엔드포인트 특성으로 하드 코딩하는 대신에 구성 특성을 작성한 후 엔드포인트의 구성 페이지에서 해당 특성 이름을 사용할 수 있습니다.

이는 Studio에서 작성된 엔드포인트가 특정 주소 정보(호스트 이름, IP 주소) 및 기타 세부사항(사용자 계정, 비밀번호)으로 구성되기 때문입니다. 배치 시 프로젝트가 실행될 실제 환경의 스펙에 대해 이러한 세부사항을 변경해야 할 수 있습니다(배치, 테스트 및 프로덕션 환경이 서로 다른 서버와 시스템을 사용한다고 가정).

배치 시 특성과 연관된 값을 적당한 호스트 이름, IP 주소 등으로 변경할 수 있습니다.

구성 특성 작성에 대한 자세한 정보는 Studio 온라인 도움말을 참조하십시오.

상위 주제: [배치 개념](#)

## 프로젝트를 개발하기 전에

이 절에서는 고유의 통합 프로젝트를 개발하기 전에 알아야 할 정보를 제공합니다.

- [통합 프로젝트 계획](#)  
통합 프로젝트에 대한 개발 프로세스를 시작할 때 Studio를 사용하여 프로젝트 요구사항을 오케스트레이션으로 변환하기 전에 통합 시나리오를 정의해야 합니다.
- [프로젝트 요구사항을 Studio 컴포넌트로 변환](#)  
통합 프로젝트의 상위 레벨 목표를 식별한 후 통합 프로젝트의 더 특정한 측면을 분석하고 목표 달성에 사용할 수 있

는 Studio 컴포넌트를 식별하는 작업을 시작할 수 있습니다.

- **통합 어플라이언스 구성 팁**

통합 어플라이언스 구성을 변경하려고 할 수 있습니다. 이 주제에서는 비밀번호 변경, 사용자 및 그룹 작성, 최적 성능 구성을 다룹니다.

- **Studio 우수 사례**

Studio를 최대 잠재치까지 사용하기 위한 안내입니다.

## 통합 프로젝트 계획

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통합 프로젝트에 대한 개발 프로세스를 시작할 때 Studio를 사용하여 프로젝트 요구사항을 오케스트레이션으로 변환하기 전에 통합 시나리오를 정의해야 합니다.

### 통합 시나리오 정의

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통합 시나리오를 정의할 때 명확한 목표를 지정하십시오. 이 목표를 유념하면서 상위 레벨 프로젝트 요구사항을 식별하십시오.

- 엔드포인트 - 데이터를 이동할 소스 시스템과 대상 시스템은 무엇입니까?
- 형식 - 소스 시스템의 데이터 형식은 무엇입니까? 대상 시스템에서 허용하는 데이터 형식은 무엇입니까?
- 변환 - 소스 데이터와 대상 데이터의 형식 또는 구조가 다른 경우, 필요한 데이터 변환 유형은 무엇입니까? 특별한 처리 규칙이 있습니까?

예를 들어, 목표가 여러 구매 주문을 통합하고 통합된 구매 주문을 공급자의 데이터베이스에 저장하는 것인 경우가 해당됩니다. 상위 레벨 프로젝트 요구사항에는 다음과 같은 세부사항이 포함될 수 있습니다.

- 엔드포인트 - 소스 시스템은 FTP 서버입니다. 대상 시스템은 Oracle 데이터베이스입니다.
- 형식 - 소스 데이터는 FTP 서버에 저장된 CVS 플랫폼 파일에서 가져옵니다. 대상 데이터베이스에는 테이블 형식의 데이터가 필요합니다.
- 변환 - 플랫폼 파일을 테이블로 변환해야 합니다. 또한 매출세가 있는 위치에서의 주문은 매출세가 없는 위치에서의 주문과 다르게 처리해야 합니다.
- 통합 프로젝트의 전체 목표. 예를 들어, 플랫폼 파일 구매 주문을 XML 구매 주문과 결합하여 공급자의 데이터베이스에 저장되는 단일의 대형 구매 주문으로 작성합니다.

예를 들어, 여러 구매 주문을 통합하고 해당 구매 주문이 특정 형식을 준수하는지 확인한 후 다음을 수행하려고 합니다.

- 일부 플랫폼 파일 소스를 대상 XML 파일로 통합해야 합니다.
- 한 FTP 사이트의 파일을 다른 FTP 사이트로 이동해야 합니다.

**상위 주제:** [프로젝트를 개발하기 전에](#)

## 프로젝트 요구사항을 Studio 컴포넌트로 변환

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통합 프로젝트의 상위 레벨 목표를 식별한 후 통합 프로젝트의 더 특정한 측면을 분석하고 목표 달성에 사용할 수 있는 Studio 컴포넌트를 식별하는 작업을 시작할 수 있습니다.

통합 프로젝트의 다음 특성을 분석하여 시작할 수 있습니다.

- 어떤 소스에서 데이터를 얻고 어떤 대상으로 데이터를 전송하시겠습니까? 이러한 소스와 대상(데이터베이스, FTP 서버, HTTP 서버, 이메일 등)은 Studio에서 프로젝트의 일부로 작성되는 엔드포인트를 구성합니다.
- 소스 데이터의 형식과 필수 대상 데이터의 형식은 무엇입니까? EDI 형식, CSV 및 기타 형식을 포함한 텍스트 기반 파일은 Studio에서 데이터를 통합 어플라이언스에 적당한 형식으로 변환하는 플랫폼 파일 스키마로 정의될 수 있습니다.

다. 또한 플랫폼 파일 스키마를 사용하여 통합 어플라이언스 외부에서 사용되는 플랫폼 파일 형식으로 데이터를 생성할 수 있습니다. 적당한 XML 스키마(.xsd) 또는 문서 유형 정의(.dtd)를 Studio로 업로드하여 XML 기반 데이터를 통합 프로젝트에 포함할 수 있습니다.

- 데이터 형식 또는 구조를 소스에서 대상으로 변경해야 합니까? 또한 이 경우 어떤 방법으로 변경해야 합니까? 처리의 일부는 콘텐츠 자체를 기반으로 해야 합니까?

이러한 요구사항 식별은 Studio에서 데이터 변환을 비롯한 활동 세트를 포함하는 하나 이상의 오케스트레이션을 정의하는 데 필요한 정보를 제공합니다. 변환은 데이터를 한 형식에서 다른 형식으로 변환합니다. 예를 들어, CSV(Comma Separated Values) 형식의 플랫폼 파일 데이터를 XML 데이터로 변환합니다. 변환은 또한 데이터 제외, 데이터 추가, 데이터 유형 변경 및 계산을 수행할 수 있습니다.

상위 주제: [프로젝트를 개발하기 전에](#)

## 통합 어플라이언스 구성 팁

통합 어플라이언스 구성을 변경하려고 할 수 있습니다. 이 주제에서는 비밀번호 변경, 사용자 및 그룹 작성, 최적 성능 구성을 다룹니다.

### 기본 비밀번호 변경

웹 관리 콘솔을 사용하는 경우 다음을 수행하십시오.

1. WMC의 오른쪽 상단 구석에서 사용자 이름을 클릭하십시오.
2. 비밀번호 변경을 선택하십시오.
3. 이전 및 새 비밀번호를 입력하고 새 비밀번호를 확인하십시오.
4. 저장을 클릭하십시오.

명령 인터페이스를 사용하는 경우 다음을 수행하십시오.

1. PuTTY와 같은 애플리케이션을 시작하여 SSH 연결을 통해 CLI에 로그인 하십시오.
2. 어플라이언스 호스트 이름을 입력하십시오.
3. 필요한 경우 연결 프로토콜로 SSH를 선택하거나 애플리케이션에서 제공되는 다른 연결 매개변수를 설정하십시오.
4. 연결을 Initiate®하십시오. 첫 번째 액세스 시 로그인 프롬프트가 표시됩니다.
5. 기본 사용자 이름과 비밀번호를 사용하여 통합 어플라이언스에 로그인하십시오[사용자 이름 = admin, 비밀번호 = ! n0r1t5@C].
6. 다음 명령을 실행하십시오. `auth set user admin <old_password> <new_password>`

### 사용자 및 그룹 작성과 해당 권한 정의

다중 사용자 디바이스를 사용하는 경우와 마찬가지로 사용자 및 그룹을 작성하고 사용자가 작업을 수행하는 데 필요한 권한만 갖도록 하는 '최소 권한' 규칙을 사용하여 통합 어플라이언스에 대한 액세스를 제공하십시오. 권한 설정에 대한 자세한 정보는 웹 관리 콘솔 온라인 도움말을 참조하십시오.

### 최적 성능을 위한 통합 어플라이언스 구성

통합 프로젝트가 프로덕션에 배치되고 예상대로 실행되면 더 나은 성능을 위해 다음 매개변수를 조정하십시오.

- 각각의 오케스트레이션에 대해 모두 옵션부터 오류 값 옵션까지 로깅 레벨을 변경하십시오.
- 각각의 알림에 대해 레벨 초과 필드를 중요 옵션으로 설정하십시오.

상위 주제: [프로젝트를 개발하기 전에](#)



# Studio 우수 사례

Studio를 최대 잠재치까지 사용하기 위한 안내입니다.

## 조직에 대한 이름 지정 규칙 설정

모든 Studio 프로젝트 및 관련 컴포넌트 파일, 폴더, 프로젝트, 오케스트레이션, 엔드포인트 등에 고유하고 의미 있는 이름(해결 중인 비즈니스 문제점과 관련해서 의미 있음)을 제공합니다. 이름은 다음과 같아야 합니다.

- **고유함** - Studio는 대소문자를 구분합니다. filename1, FILENAME1 및 FileName1은 세 개의 다른 파일입니다. 그러나 Studio 프로젝트를 구별할 때 대문자 표시에 의존하지 마십시오. 혼동을 가져올 수 있습니다.
- **설명적** - 예를 들어, 공급자와 인벤토리 시스템을 통합하는 프로젝트는 “SupplyChainIntegration”이라고 부를 수 있습니다.

## 프로젝트를 자주 백업

특히 다중 사용자 환경에서는 프로젝트를 자주 백업하십시오. 특정 프로젝트의 디렉토리에 콘텐츠의 압축 파일을 간단히 작성하여 모든 Studio 프로젝트 컴포넌트를 빠르게 백업할 수 있습니다. 압축 파일을 다른 안전한 위치에 저장하십시오. 프로젝트 변경사항도 추적할 수 있는 버전 제어 시스템에 저장하는 것이 이상적입니다.

## 중심 위치에 프로젝트 저장

프로젝트를 쉽게 찾고 이전 반복이 쉽게 복구되도록 기본적으로 버전 제어 소프트웨어를 사용하여 모든 프로젝트 파일을 중심 위치에 저장하십시오(이는 여러 개발자가 동일한 프로젝트에 대해 작업 중인 경우에 특히 중요함).

## 최적 성능을 위한 오케스트레이션 디자인

가능한 경우 통합하기 전에 소스 시스템의 기본 기능을 사용하여 모든 입력 데이터를 사전 처리하십시오. 소스 시스템 외부에서의 데이터 변환이 처리 오버헤드에 추가됩니다. 성능이 문제가 되는 경우, 통합 프로젝트의 오케스트레이션에서 맵 활동의 사용을 최소화할 수 있는 방법을 조사하십시오.

예를 들어, 몇 개의 다른 데이터베이스 시스템에서 데이터를 통합하는 경우, 오케스트레이션의 서로 다른 데이터 유형 간의 모든 차이점을 해결하는 대신에 데이터를 사전 처리하는 추출 테이블을 작성하는 것을 고려하십시오.

## 엔드포인트 정의에 구성 특성 사용

프로젝트 엔드포인트의 세부사항을 하드 코딩하는 대신에 일부 세부사항의 특성을 사용할 수 있습니다. 이러한 구성 특성을 Studio에 정의한 후 관리 콘솔을 사용하여 다양한 런타임 값을 지정합니다. 프로젝트를 배치하기 전에 프로덕션 환경에서 실제 엔드포인트의 특성을 구성해야 합니다. 자세한 정보는 온라인 도움말을 참조하십시오.

## 디자인할 때 Studio의 활동 및 모든 정의 테스트

Studio를 사용하여 오케스트레이션의 모든 요소를 디자인할 때 적당한 경우에는 항상 테스트 데이터를 사용하여 맵핑이 예상대로 작동하는지 확인하십시오. 프로젝트를 공개하기 전에 Studio를 사용하여 모든 맵핑과 플랫 파일 스키마를 테스트하십시오.

## 개발 및 테스트 환경 설정

이상적으로 테스트 환경에서 데이터 소스 및 대상을 복제하는 것을 포함하여 프로덕션 환경을 미러링하는 개발 및 테스트 환경을 설정해야 합니다.

- 프로덕션 데이터를 개발 및 테스트 환경에 추출(또는 복제)하십시오.

프로젝트를 배치하기 전에 구성 특성을 변경하여 프로덕션 환경에서 실제 엔드포인트의 특성을 구성해야 합니다. 자세한 내용은 관리 콘솔 온라인 도움말을 참조하십시오.

상위 주제: [프로젝트를 개발하기 전에](#)

## 용어집

용어집

공개(Publish)

나중에 런타임 구성을 수행하고 특정 환경에 배치하기 위해 Studio의 모든 프로젝트 파일을 통합 어플라이언스 또는 중간 스테이징 영역(예: 파일 서버의 공유 디렉토리)에 복사합니다. 공개 프로세스에는 프로젝트 유효성 검증, 프로젝트 구성 문서의 .par 파일 작성 및 지정된 통합 어플라이언스에 패키지 보내기가 포함됩니다.

#### 노드(Node)

통합 어플라이언스에 대한 모든 데이터 입력 또는 출력은 트리와 유사한 계층 구조에서처럼 일련의 노드로 Studio에서 구체화됩니다. 노드가 XML 문서의 구조와 콘텐츠를 표시하는 경우도 많지만 그렇지 않은 경우도 많습니다(예: 데이터베이스 테이블의 행이 노드로 표시됨). Studio의 노드는 구조에 대한 정보, 지원될 수 있는 콘텐츠 유형 또는 데이터의 추가 특성을 전달합니다.

#### 동적 구분 기호(Dynamic delimiter)

전자 건강 레코드의 일괄처리를 포함하는 파일에서 새 레코드의 시작을 표시하는 HL7 PID(환자 ID) 메시지 헤더와 같이 메시지 자체의 필드 내에서 얻는 구분 기호입니다.

#### 레코드 ID(Record identifier)

특정 유형의 플랫폼 파일(예: EDI(electronic data interchange) 또는 HL7(Health Level 7) 파일)에서 레코드를 구분하는 특수 필드입니다. 예를 들어, HL7 PID(환자 ID) 번호는 레코드 ID입니다.

#### 매개변수(Parameter)

활동 또는 오케스트레이션에 전달되는 값입니다. 예를 들어, 파일 이름과 데이터는 FTP 엔드포인트에서 오케스트레이션으로 전달될 수 있는 두 가지 매개변수입니다.

#### 맵(Map)

입력 매개변수를 변수에 바인딩하고 변수를 오케스트레이션에 바인딩할 수 있는 컴포넌트입니다. 많은 Studio 활동에는 오케스트레이션과 관련하여 실제 매개변수를 변수에 맵핑하는 방법과 변수를 오케스트레이션에서 처리하는 방법을 정의하기 위해 디자인 시 구성해야 하는 임베디드 맵이 포함되어 있습니다. 임베디드 활동 맵 외에 Studio에는 모든 입력 및 출력 유형을 오케스트레이션에 바인딩하는 데 사용할 수 있는 독립형 맵 활동이 있습니다.

#### 명령행 인터페이스(Command-line interface)

통합 어플라이언스를 구성, 관리 및 조회하는 데 사용되는 웹 관리 콘솔의 텍스트 기반 대안입니다.

#### 문서(Document)

통합 프로젝트를 구성하는 XML 스키마 파일, DTD 및 기타 구성 파일 중 하나입니다.

#### 바꾸기(Replace)

선택 및 기타 활동 분기에서 해당 분기에 대한 메시지를 수신하는 엔드포인트 활동의 초기 플레이스홀더로 표시됩니다. 이 아이콘에서 수신 엔드포인트 활동을 삭제하면 제거됩니다.

#### 반복 구분 기호(Repetition delimiter)

레코드 ID와 같이 하나의 레코드를 다른 레코드와 구별하는 고유 값이 데이터에 없을 때 사용되는 플랫폼 파일의 구분 기호입니다.

#### 배치(Deploy)

통합 어플라이언스에서 프로젝트 구성 인스턴스를 작성합니다.

#### 버퍼 테이블(Buffer table)

단일 테이블 삽입, 업데이트 또는 데이터베이스 삭제 활동과 같은 다양한 데이터베이스 모듈 활동과 함께 사용되는 보조 테이블입니다. 데이터베이스 DML(data manipulation language) 활동 중 하나를 구성할 때 Studio는 데이터베이스 테이블에서 적당한 트리거를 작성하는 데 사용할 수 있는 SQL 스크립트를 생성합니다. 버퍼 테이블은 트리거링 이벤트(INSERT, UPDATE, DELETE)가 발생할 때 채워집니다. 버퍼 테이블은 데이터베이스 변경사항을 캡처하고 오케스트레이션에 의한 처리를 시작하는 수단을 제공합니다.

#### 변수(Variable)

오케스트레이션에서 처리되는 데이터 값을 전달하는 데 사용됩니다. 변수는 맵이 소스와 대상을 식별하는 데 사용됩니다. 일부 활동은 변수를 자동으로 작성합니다.

#### 변환(Transformation)

데이터를 한 형식에서 다른 형식으로 변환합니다. 예를 들어, CSV(Comma Separated Values) 형식의 플랫폼 파일 데이터를 XML 데이터로 변환합니다. 변환은 또한 데이터 제외, 데이터 추가, 데이터 유형 변경 및 계산을 수행할 수 있습니다.

#### 비어 있는 플레이스홀더(Empty placeholder)

여러 분기가 있는 활동에서 해당 분기의 활동에 대한 초기 플레이스홀더로 표시됩니다. 이 아이콘에서 다른 활동을 삭제하면 제거됩니다.

#### 선택(Pick)

발생한 조치를 기반으로 실행할 시작 활동을 판별하는 활동입니다. 예를 들어, 선택 활동은 세 개의 분기를 포함할 수 있습니다. 삽입된 행 가져오기 활동, 삭제된 행 가져오기 활동 및 업데이트된 행 가져오기 활동이 분기에 각각 포함됩니다. 데이터베이스에 대해 UPDATE 이벤트가 발생하는 경우 오케스트레이션의 인스턴스가 작성되고 업데이트된 행 가져오기 활동을 포함하는 분기가 호출됩니다.

#### 스토어드 프로시저(Stored procedure)

데이터베이스에 상주하고 이름을 호출하여 명시적으로 실행되는 함수 코드 단위입니다. 특정 데이터베이스 테이블에서 특정 삽입, 업데이트 또는 삭제 활동이 발생할 때 스토어드 프로시저를 사용하여 버퍼 테이블을 채울 수 있습니다.

#### 엔드포인트(Endpoint)

런타임 시 통합 어플라이언스가 데이터를 가져오거나 리턴하기 위해 연결하는 데이터베이스 서버, FTP 서버, 이메일 시스템 또는 엔터프라이즈 애플리케이션과 같은 외부 시스템입니다.

#### 오케스트레이션(Orchestration)

Studio를 사용하여 정의 및 구성되고 통합 어플라이언스에서 실행되도록 배치된 특정 순서의 처리 활동(예: 데이터 맵핑, 변환 및 로직 제어 활동), 엔드포인트 및 데이터 유형입니다.

#### 자산(Asset)

특정 활동과 연관된 보충 구성 파일, 스크립트 또는 기타 자료입니다. 예를 들어, 데이터베이스 삽입 활동을 위해 작성된 버퍼 테이블 스크립트는 자산입니다. 자산은 웹 관리 콘솔에 의해 제어됩니다. 자산에 대한 액세스 권한은 WMC 사용자 이외의 사용자에게 제공할 수 있습니다. 예를 들어, DBA에게는 필수 테이블 또는 트리거를 작성할 수 있도록 데이터베이스 활동과 연관된 자산에 대한 권한이 제공됩니다.

#### 작업(Job)

오케스트레이션의 특정 런타임 인스턴스입니다.

#### 제어 테이블(Control table)

통합 시 데이터베이스 엔드포인트 사용을 용이하게 하는 데이터베이스 테이블입니다. 버퍼 테이블과 마찬가지로 Studio는 특정 테이블에 대한 삽입, 업데이트 및 삭제가 단 한 번만 발생하도록 보장하는 데 사용할 수 있는 제어 테이블을 작성하는 스크립트를 생성합니다.

#### 종료(Terminate)

오케스트레이션 처리를 중지합니다.

#### 통합 프로젝트(Integration project)

Studio에서 디자인되고 통합 어플라이언스에 배치되는 통합 솔루션을 포함하는 다양한 입력, 출력(엔드포인트), 맵핑 및 스키마 정의(변환, 메시지 형식), 오케스트레이션 및 구성 정보입니다.

#### 트리거(Trigger)

트리거링 이벤트가 발생할 때 내재적으로 호출되는 데이터베이스 스토어드 프로시저의 유형입니다. 데이터베이스 모듈에서는 테이블에 대한 INSERT, UPDATE 또한 DELETE로 “트리거링 이벤트”가 발생합니다.

#### 프로젝트(Project)

Cast Iron® Studio를 사용하여 정의되고 작성되는 프로젝트입니다. 각각의 프로젝트에는 특성 파일(filename.sp3)과 모든 통합 요소(오케스트레이션, 엔드포인트, XML 스키마, 플랫폼 파일) 및 해당 특정 구성(변수, 매개변수)을 포함하는 몇 개의 추가 메타데이터 파일 및 폴더가 있습니다.

#### 플랫 파일 스키마(Flat File Schema)

특정 플랫 파일 세트를 해석하는 방법을 정의합니다. Studio는 메시지 정의 분할창에서 정의하는 구성을 기반으로 플랫 파일 스키마(XML 스키마)를 작성합니다. 플랫 파일 스키마는 플랫 파일 읽기 활동과 함께 사용되어 소스 플랫 파일을 XML로 변환합니다.

#### 플랫 파일(Flat file)

비XML 데이터를 포함하는 파일입니다. 플랫 파일은 일반적으로 두 가지 유형(쉼표, 탭, 공백 또는 기타 구분 기호가 가변 길이 필드 및 레코드를 구분하는 데 사용되는 구분 유형과 필드 및 레코드의 너비가 고정된 위치 유형)입니다.

#### 함수(Function)

오케스트레이션에서 처리를 정의하는 데 사용할 수 있는 Studio 제공 문자열, 수학적 및 기타 함수입니다. 사전 빌드된 함수에 더하여 Studio에서는 사용자 고유 정의 함수를 빌드하고 검색 테이블을 추가할 수 있습니다.

#### 활동(Activity)

오케스트레이션 내에서 처리의 완전한 기능 단위입니다. 활동에는 플로우 제어(로직) 활동, 데이터 이용과 전송을 용이하게 하는 데이터 활동, 데이터베이스 시스템, 엔터프라이즈 시스템, 웹 서버, 이메일 서버 및 기타 시스템과 통합할 수 있는 활동이 포함됩니다. 오케스트레이션에는 일련의 활동이 포함되어 있습니다.

For Each(For each)

데이터가 반복되는 메시지 구조를 반복하는 활동입니다.

Studio(Studio)

통합 프로젝트와 통합 프로젝트에 포함된 오케스트레이션을 작성, 구성 및 공개하기 위한 IDE(Integrated Development Environment)입니다. Studio 프로젝트는 Cast Iron 통합 어플라이언스에서 실행됩니다.

While Loop(While loop)

지정된 조건이 true인 동안에는 모든 하위 활동을 시작하고 계속해서 처리합니다.

## 법적 고지사항

- [주의사항](#)
  - [Information Center 이용 약관](#)
- 다음 이용 약관에 따라 이 책을 사용할 수 있습니다.

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150-945

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국제금융로 10, 3IFC

한국 아이.비.엠 주식회사

대표전화서비스: 02-3781-7114

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## Information Center 이용 약관

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### 적용성

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상위 주제: [법적 고지사항](#)

## 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

---

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.
- [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 enable 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 list 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.

## Studio basics

















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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

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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: CTRL+C.
3. To paste the entity, enter the key sequence: CTRL+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](#):




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  is displayed as shown in [Figure 2](#).

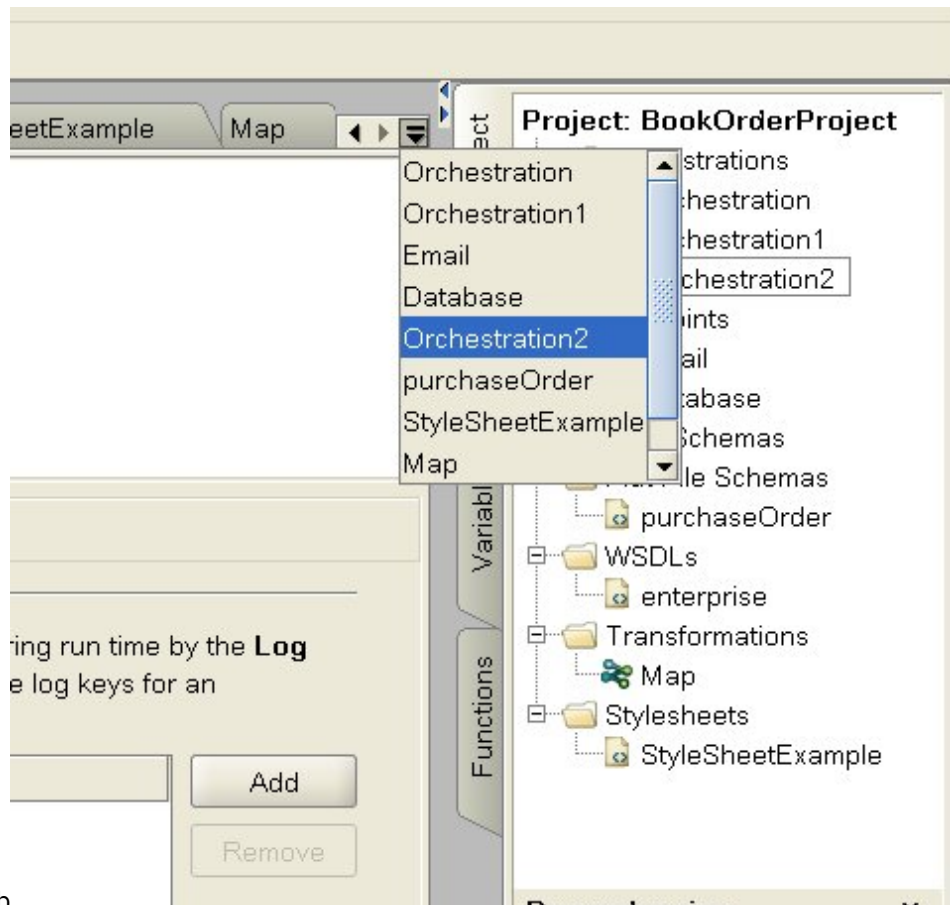




Figure 2. Hidden Tab

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.

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

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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.

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

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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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### Feedback | Notices



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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/basics\\_changing\\_project\\_security.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/basics_changing_project_security.html)

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

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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:

- Select a project file that ends in the .sp3 extension and click Open.
  - 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

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

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### Feedback | Notices

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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:

- Select File > 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:
  - Select File > Save As from the Studio toolbar
  - 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 .

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

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### Feedback | Notices

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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.

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

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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>
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>

Button or Option Label	Description
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




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>
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	<p>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.</p> <p>If you select this option, Studio does not generate WSDLs with the most current namespaces.</p>
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>
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 Java™ keystore.

<b>Button or Option Label</b>	<b>Description</b>
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	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. Note: Specifying a large number of child node levels can adversely affect the performance of Studio. The recommended value for this preference is 6.
Number of recursive node levels	Specifies the number of recursive node levels allowed and graphically displayed. Note: Specifying a large number of recursive node levels can adversely affect the performance of Studio. The recommended value for this preference is 3.
Number of child node levels that are initially expanded when a schema is displayed graphically	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.  Note: Specifying a large number of child node levels can adversely affect the performance of Studio. The recommended value for this preference is 4.

Button or Check Box Label	Description
Number of child node levels allocated in memory for the substituted types of schema	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. Note: Lowering this value decreases the memory requirement for child node levels in Studio.

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	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.

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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.

### 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](#)

## Searching for Template Integration Projects (TIPs)

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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


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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

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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


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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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Installing\\_Module\\_Provider\\_Libraries.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Installing_Module_Provider_Libraries.html)

## 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

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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.
  - 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](#).
  - 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

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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

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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. 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](#)

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

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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

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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

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

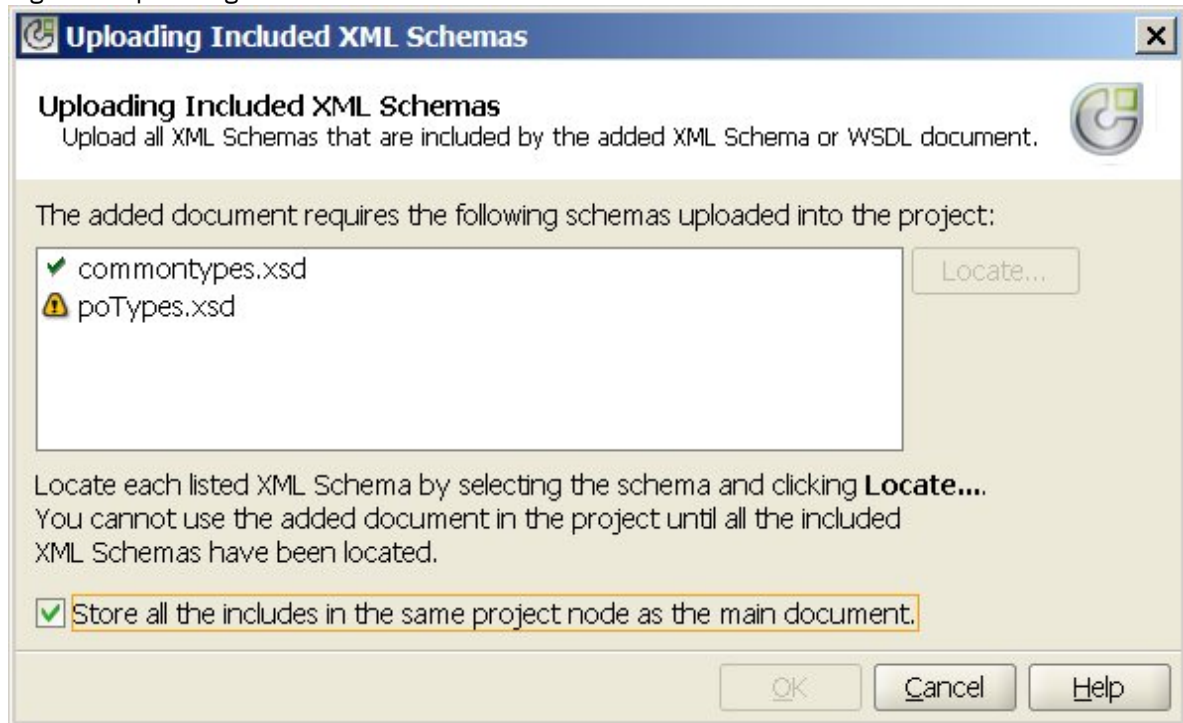
When you add or upload the main XML Schema or WSDL to the project using the Add Document dialog box, you are prompted to locate any included XML Schema or XML Schemas into the project, as shown in the following procedure. All the included XML Schemas must be located before the main XML Schema or WSDL 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](#).

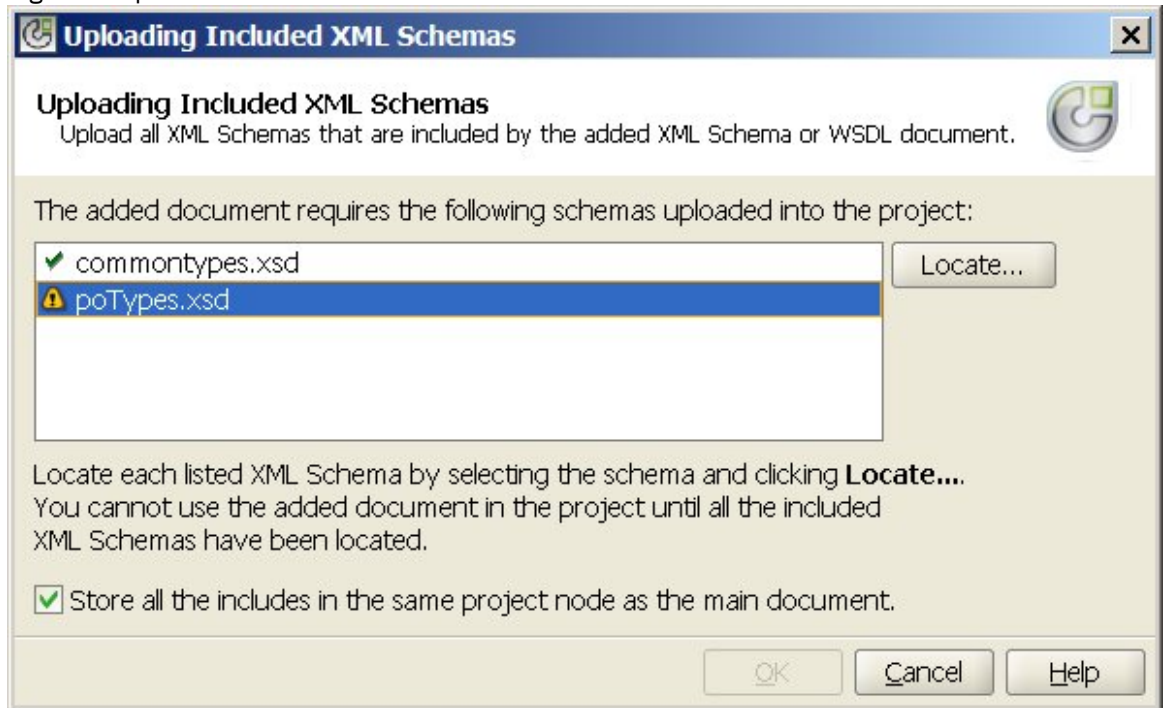
Figure 1. Uploading Included XML Schemas




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:
  - a. 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



- b. Click Locate. The Locate the Selected XML Schema dialog box is displayed.
  - c. In the Location field, specify the location of the included XML Schema from an external web location or from the file system.
  - d. 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](#).

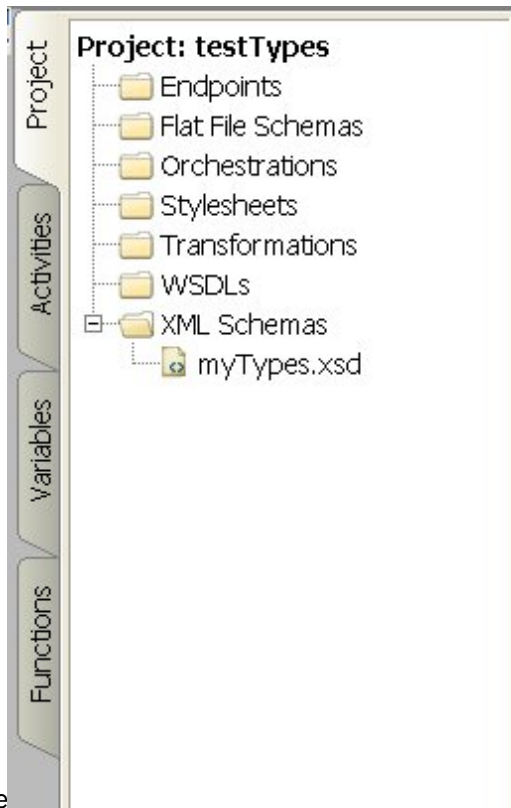


Figure 3. Example

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](#).

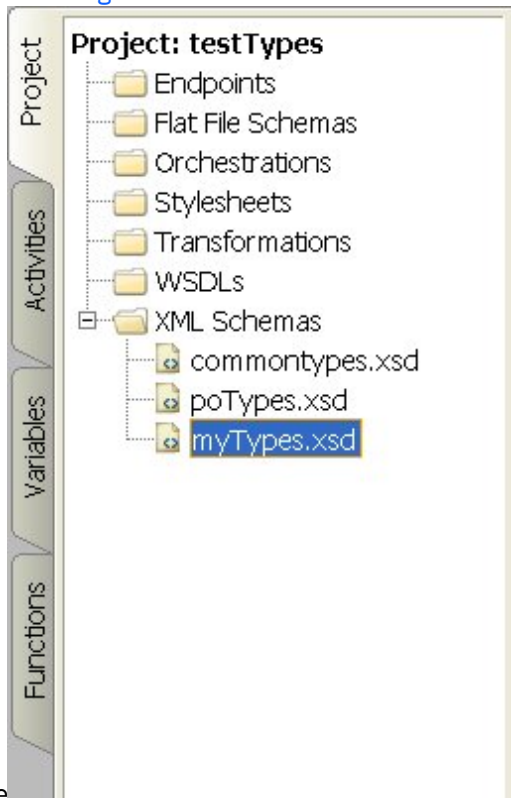


Figure 4. Example

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.

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

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## Specifying the Location of a File to Upload

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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]/location`

The 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

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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
{ } [ ] < >	any brackets
*	asterisk
\	backslash
^	caret
:	colon
\$	dollar sign
/	forward slash
#	number sign
()	parenthesis
	pipe
.	period
?	question mark
;	semicolon
	space
~	tilde

Table 2. Reserved Words for Windows

Reserved Words for Windows
AUX
COM1

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

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

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## Undo and Redo Operations

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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:
  - 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.
  - 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:
  - 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.
  - 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

---

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.

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

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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

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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:
  - o Click Browse and open an existing file.
  - o Enter the message into the text field.
4. Click Submit to post the message.

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

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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

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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

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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. 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

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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

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

### Procedure

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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.

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

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## Building an orchestration

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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.

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

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## Verifying orchestrations

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

### Before you begin

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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

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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

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

Table 1. Navigating the Verify Tab toolbar

Icon	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

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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.

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## Importing an end-entity certificate

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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

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To import an end-entity certificate and private key, you must import a file in PKCS#12 format using the Java `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


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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>.

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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](#).

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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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SSL\\_server\\_authentication.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SSL_server_authentication.html)

## 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.

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

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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.

#### Navigate Satellite View

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


#### Zoom Out

 Minimizes the view of an orchestration.

#### 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.

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.

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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.
3. Validate your orchestration using one of the following options:
  - Select Orchestration > Validate from the menu toolbar. The Validation Results dialog box is displayed.
  - Press **ALT-F8**. The Validation Results dialog box is displayed.
  - 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 tab





The 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:

 Warning icon


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.

 Information icon

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.

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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
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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


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.



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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.

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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

---

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.

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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.

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

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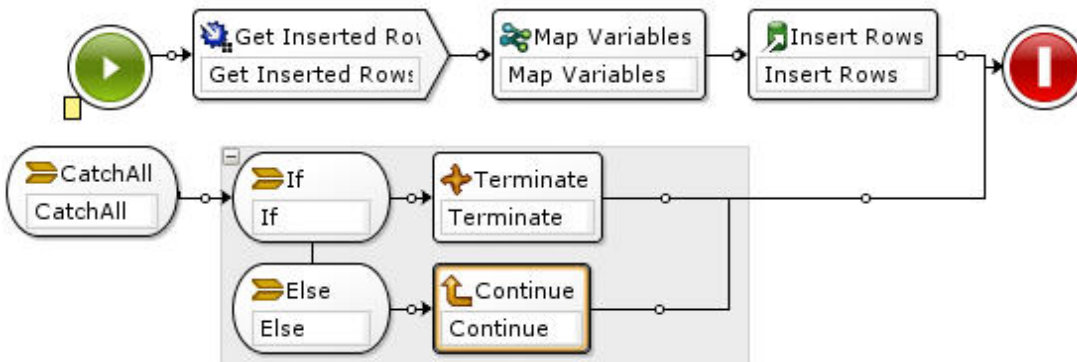
## Adding a global exception handler to an orchestration

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.

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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.

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

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/creating\\_endpoint.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/creating_endpoint.html)

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

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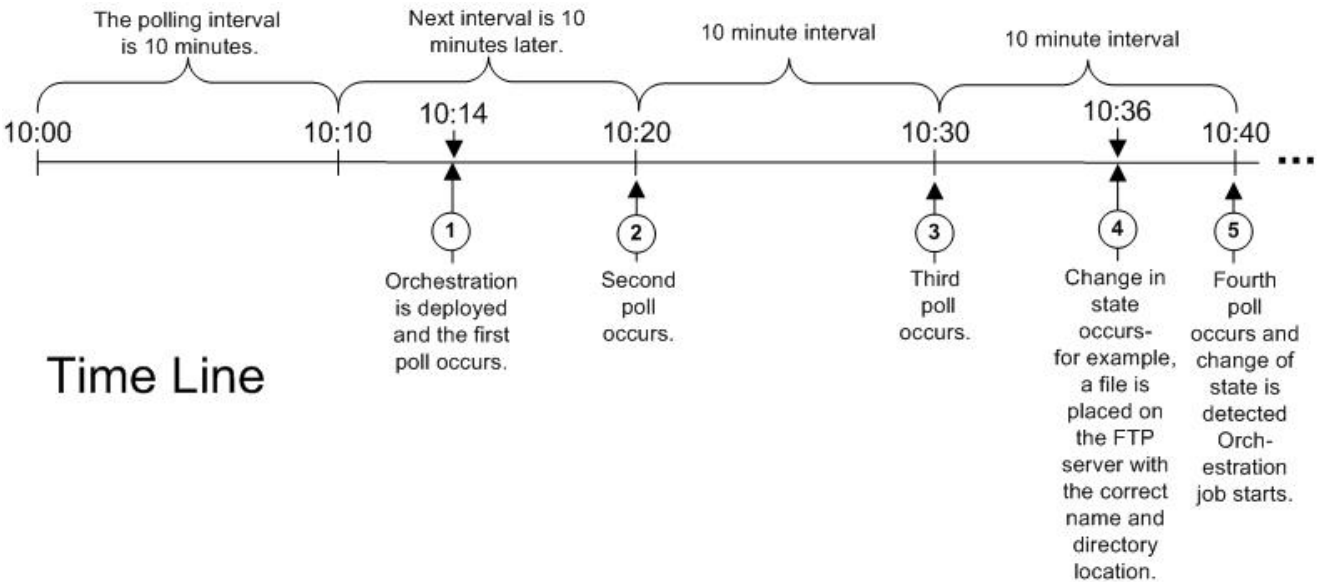
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/conn\\_Using\\_an\\_Existing\\_Endpoint.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/conn_Using_an_Existing_Endpoint.html)

## 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 interval 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](#)

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

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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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## 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: 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](#)

 Last updated: Wednesday, 15 June 2016

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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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## 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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## 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:

Option	Description
Parameter	Description
Name	Name of TIP.
Path	Specify the location in the Cast Iron solutions repository to which Studio uploads the TIP.

Option	Description
<b>Category</b>	Specify the type of TIP created: <ul style="list-style-type: none"> <li>○ Usecases</li> <li>○ Best Practices</li> <li>○ Utilities</li> <li>○ 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:

Option	Description
<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.
Option	Description
<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:

Option	Description
<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.

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

## Transform Activities

---

- [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.

## 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](#)

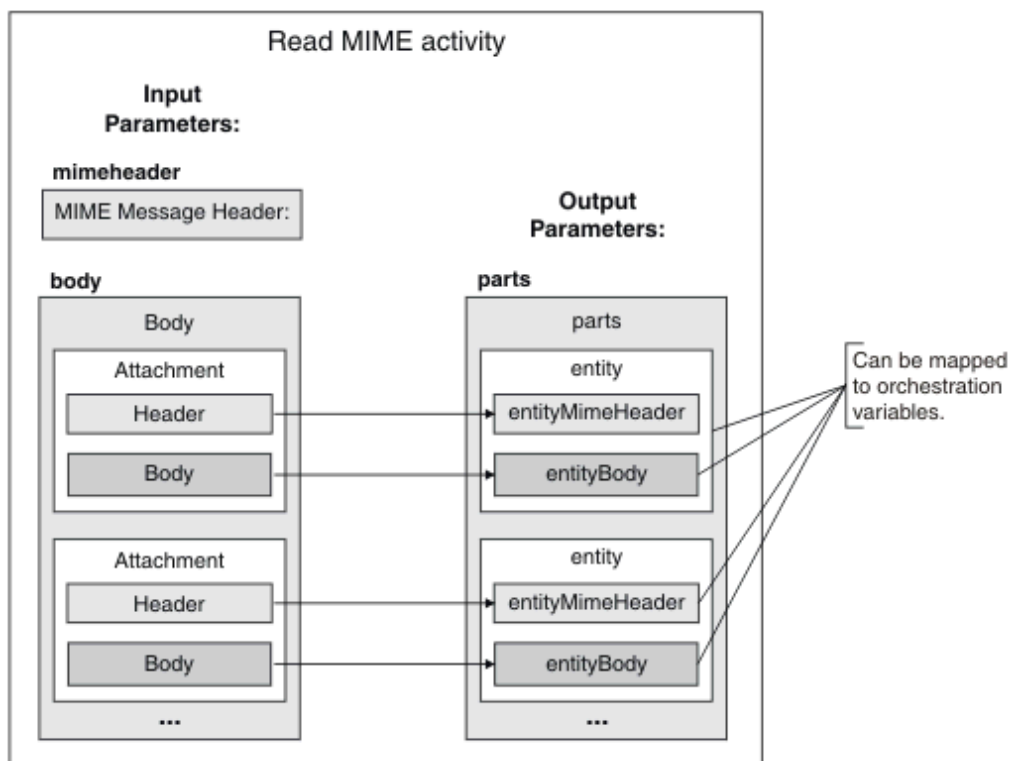
---

### Feedback | Notices

## 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Read\\_Mime\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Read_Mime_activity.html)

## 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](#)

---

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

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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

Element Name	Default
contentType/subType	Currently not used.
contentType/charset	Currently not used.
contentType/attribute/name – contentType/attribute/value	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.
contentTransferEncoding	Currently not used.
otherMimeHeaders	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 entityMimeHeader 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”/”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 “text:”

- If the Content-Type is not equal to “text” and the Content-Transfer-Encoding is “7bit”/”8bit” 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 not equal to “text” and the Content-Transfer-Encoding is “quoted-printable,” 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 “text” and the Content-Transfer-Encoding is “base64,” 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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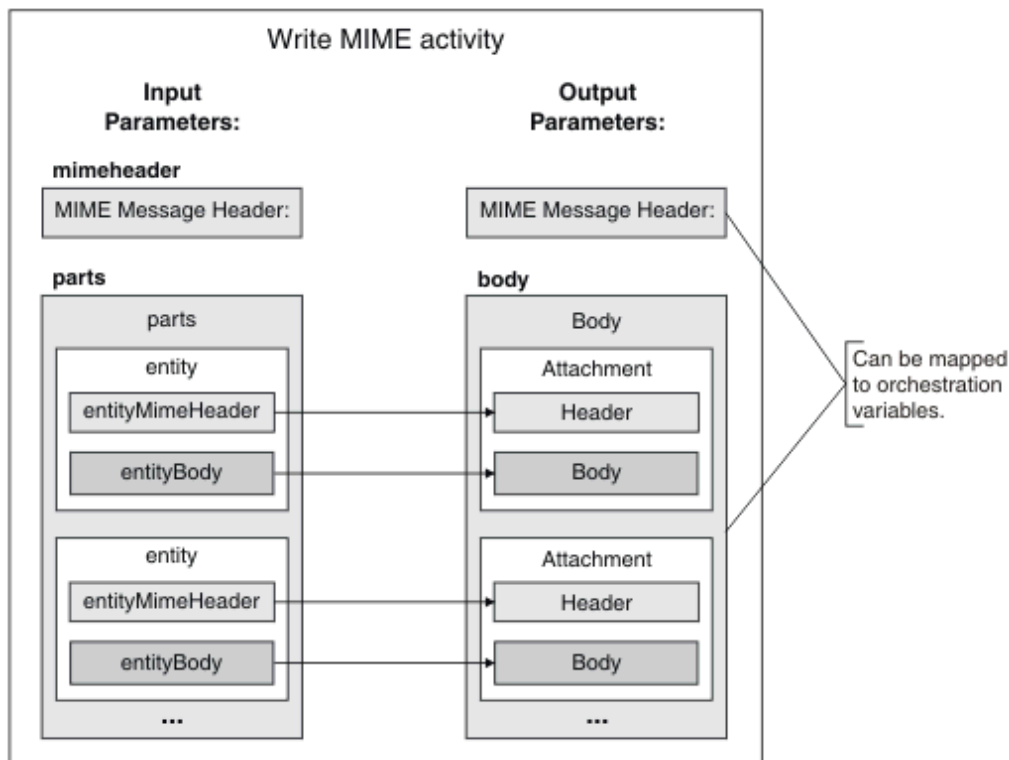
[Feedback](#) | [Notices](#)



## 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.

<b>Child Element of the mimeheader Input Parameter</b>	<b>Default Value</b>
mimeVersion	The standard MIME Version of 1.0 is assigned. The resulting MIME header is equal to the following setting: <code>MIME-Version: 1.0</code> .
contentType	The value of the Content-Type setting in the resulting MIME header is equal to the following setting: <code>Content-Type: multipart/mixed</code> .
contentType/attribute/name contentType/attribute/value	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: <code>Content-Transfer-Encoding: 7-bit</code> . 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.

<b>Child Element of the parts Input Parameter</b>	<b>Default Value</b>
mimeVersion	The standard MIME Version of 1.0 is assigned. The resulting MIME header contains the following setting: <code>MIME-Version: 1.0</code> .

content-type	The value of the Content-Type in the resulting MIME header contains the following setting: Content-Type: text/plain; charset=US-ASCII.
content-transfer-encoding	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](#)

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

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

## 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](#)

---

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

## 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](#)

---


#### Feedback | Notices

## 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.

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## 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 <d> but the XML data contains the root element called <a>.	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/Warning Type	Description	Example	Result
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		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](#)

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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

---


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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## 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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## 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	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> .

<b>O u t p u t N o d e</b>	<b>Description</b>
<b>e r r o r s / e r r o r T y p e</b>	The type of error/warning for the last error or warning that occurred during run time.
<b>e r r o r s / M e s s a g e</b>	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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[Feedback](#) | [Notices](#)

## 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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## 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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## 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](#)

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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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# 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
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 <d> but the JSON or XML data contains the root element called <a>.	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/Warning Type	Description	Example	Result
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		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](#)

---

## Feedback | Notices

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Validate\\_json\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Validate_json_activity.html)

# 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.

**Parent topic:** [Validate JSON activity](#)

---

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## 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](#)

---

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

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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](#)

---

### Feedback | Notices

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## 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.

Output Node	Description
-------------	-------------


<b>O u t p u t N o d e</b>	<b>Description</b>
<b>s</b>	<p>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>.</p>
<b>e r r o r s / e r r o r T y p e</b>	<p>The type of error/warning for the last error or warning that occurred during run time.</p>
<b>e r r o r s / M e s s a g e</b>	<p>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.</p>

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:**

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

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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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## 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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## 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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---

# 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.

---

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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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## 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

---

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 of 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

---

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

---

- [Logic activities overview](#)  
Logic activities control the flow of an 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
<a href="#">Break Loop</a>	Breaks out of a For Each, Split, or While Loop activity.
<a href="#">Continue</a>	Jumps to the next item to process in a For Each, Split, or While Loop activity.
<a href="#">ForEach</a>	Iterates through repeating nodes of a variable, performing one or more activities during each iteration cycle.
<a href="#">If..Then</a>	Routes messages based on conditions to different branches.
<a href="#">Pick</a>	Receives messages from one or more activities and selects one of them to start an orchestration.
<a href="#">Split activity</a>	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.
<a href="#">Terminate</a>	Stops all further processing of the current orchestration job.
<a href="#">Try activity.</a> ..	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.

Activity	Description
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.

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

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

## 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 Updated 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.

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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](#)

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## Try activity

---

The Try... activity attempts to run the activity or activities in the main Try branch.

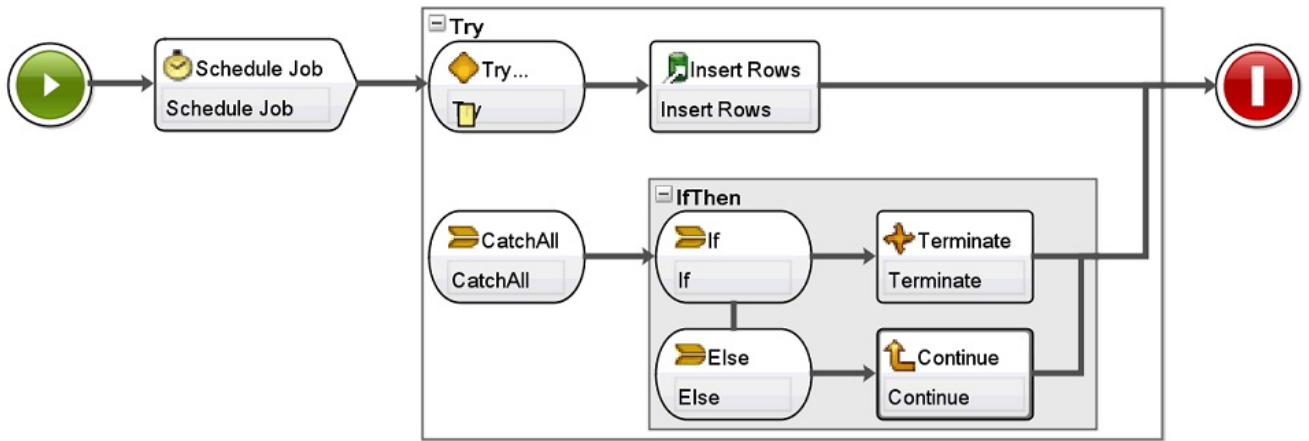
### About this task

---

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:

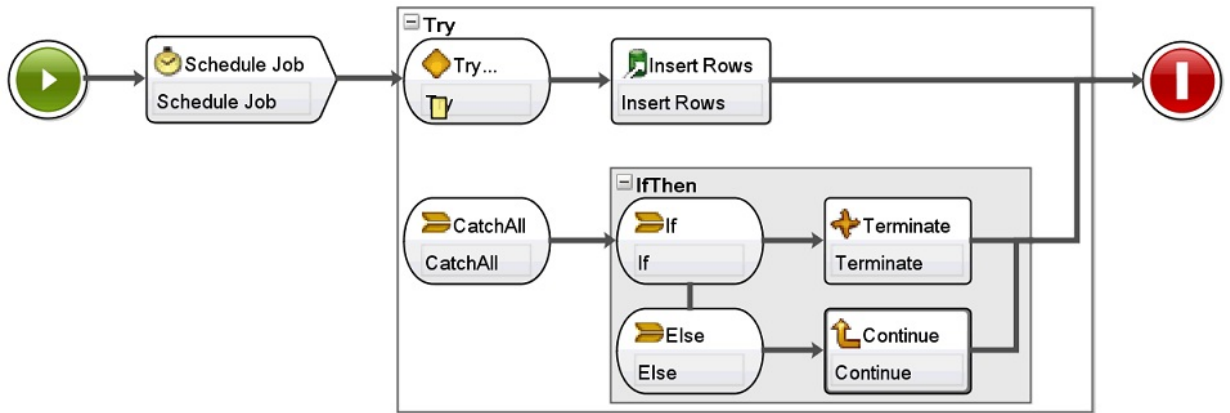
- o **faultName** - During run time, the faultName variable contains the name of the exception thrown by an activity in the Try branch.
- o **faultData** - During run time, the faultData variable contains the error message associated with the exception. This additional information is only currently returned 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

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.

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## While Loop activity

---

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

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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.

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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## 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

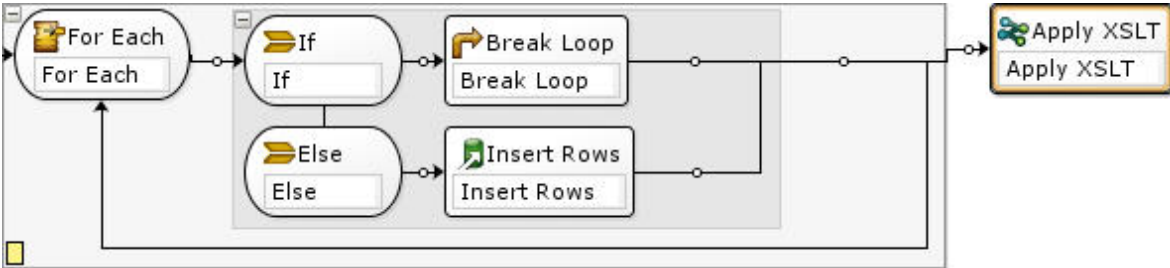
The Break Loop activity can only be used in any of the following looping activities: For Each, Split, and While Loop, as shown in the following examples.

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

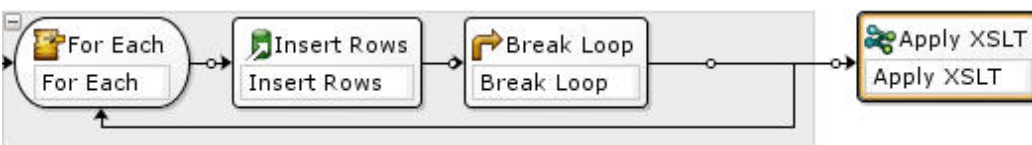


1. Drag an If..Then activity into the looping activity you set up, as shown in the preceding figure.
2. Drag an action activity (for example: the Insert Rows activity) onto the empty placeholder to the right of the Else node.
3. Configure the action activity.
4. Click the If node and enter a condition 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 – to add another branch with a condition.
  - o Add Else – 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 Down from the toolbar menu.
  - o Right-click the branch and select Go Up or Go Down from the list.

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

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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.

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

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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
```

- 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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## 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:

```
/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.

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.

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

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_Basic\\_XPath\\_Expressions.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_Basic_XPath_Expressions.html)

## 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.

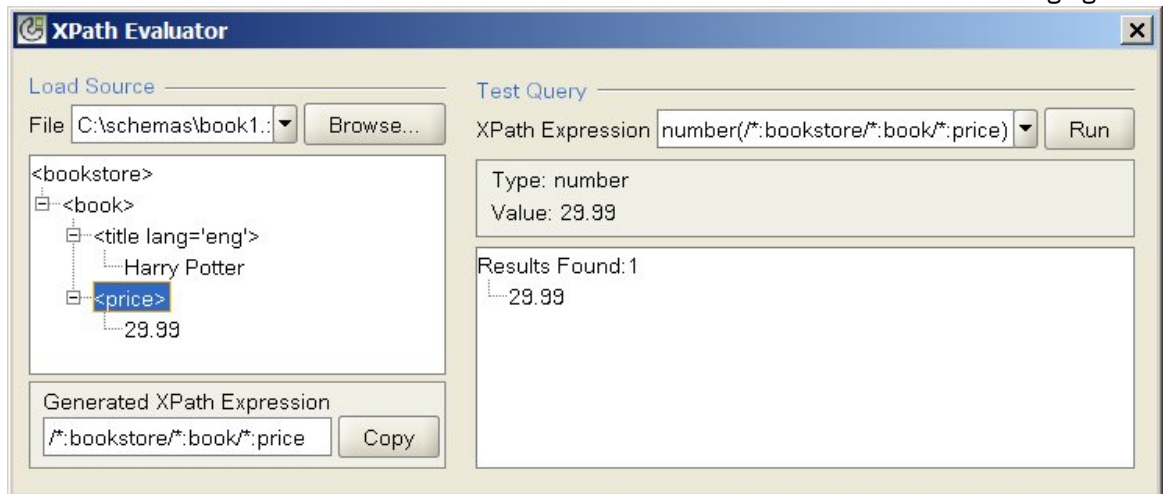
Note: XPath 2.0 is supported.

The following table describes the functionality of the XPath Evaluator dialog box.

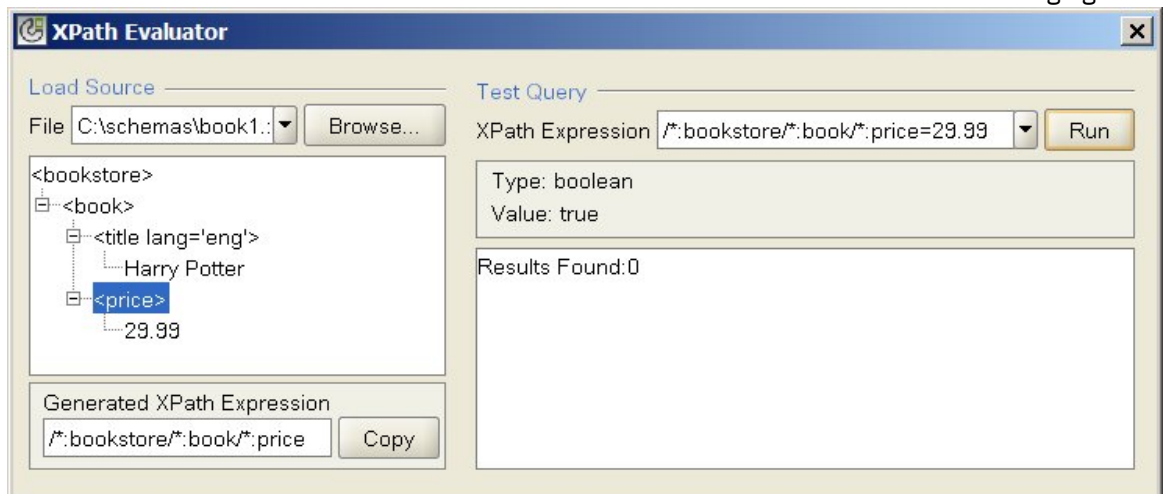
Field	Name Description
File	Specifies the directory location of the selected test XML file. Select the down arrow to select from the set of previously loaded XML files.
Browse..	Click Browse... to load the contents of the XML file from the file system.
Load Source	A graphical representation of the source 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:

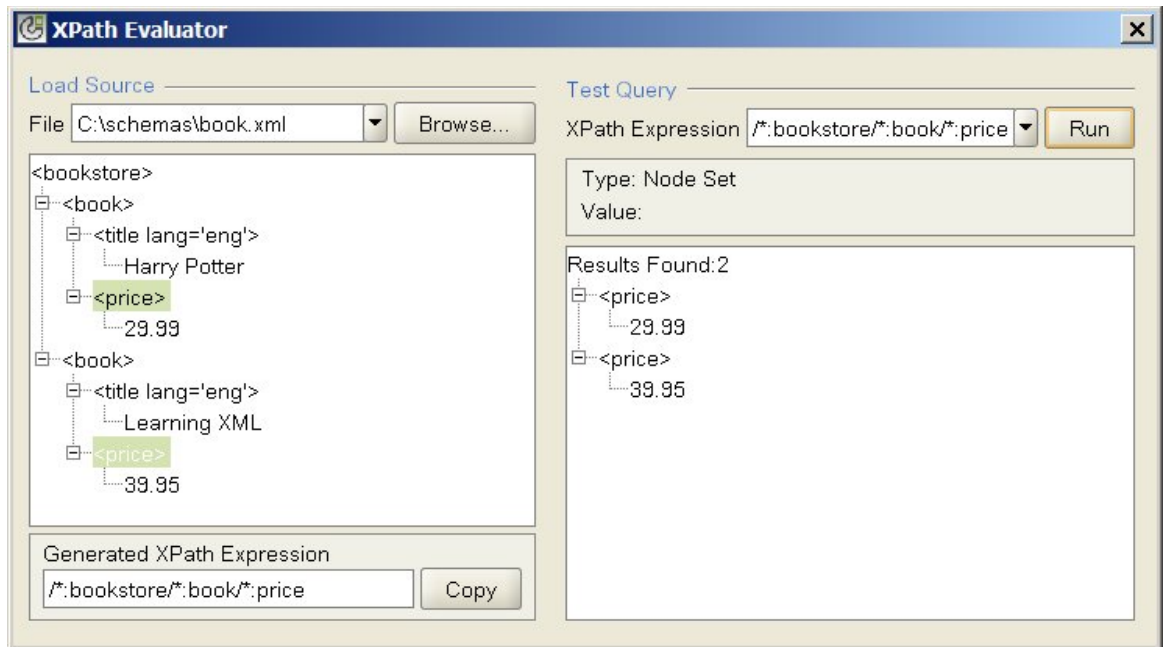
1. Select the Tools > XPath Evaluator option from the Studio toolbar menu. The XPath Evaluator window opens.
2. Click Browse... to load a test XML file from the file system. A graphical representation of the text XML elements shows in the Load Source text box.
3. To specify an XPath expression, choose from one of the following options:
  - o Enter an XPath expression directly into the XPath Expression field.
  - o 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:
  - o **number** —the value of the number is returned in the Value field as shown in the following figure:



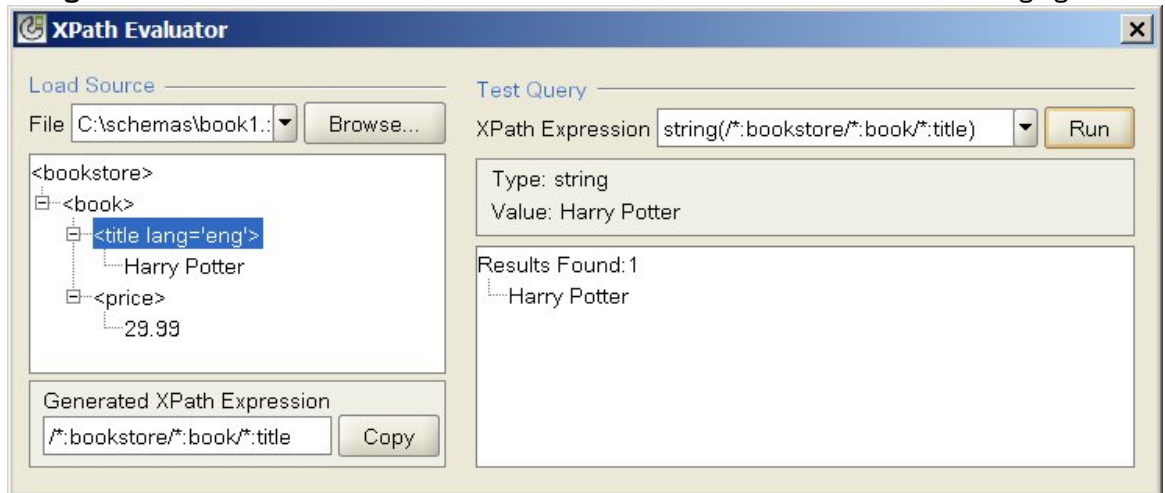
- o **boolean** —the value of the boolean is returned in the Value field as shown in the following figure:



- 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:



Parent topic: [Logic Activities](#)

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## Utilities Activities

- [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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# Schedule Job activity

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:

<b>Option</b>	<b>Description</b>
<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

---


- [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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## 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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## 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


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[Configure](#) the Archive activity.

**Parent topic:** [Archive activity](#)

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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:

<b>Format</b>	<b>Archived?</b>	<b>Compressed?</b>	<b>Description</b>
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.
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.

Format	Archived?	Compressed?	Description
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 a 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.

Node Name	Required	xsd Type	Description
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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## 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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## 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:

<b>Decompression/Unarchive Formats</b>	<b>Description</b>
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 gunzip	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.
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:

- [Adding an Unarchive activity](#)
- [Unarchive activity map input](#)
- [Unarchive activity map output](#)

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

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

## 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](#)

---

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

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/unarchive\\_activity\\_adding.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/unarchive_activity_adding.html)

## 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](#)

---

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

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/unarchive\\_activity\\_mapping\\_input.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/unarchive_activity_mapping_input.html)

## Unarchive activity map output

---

### About this task

---

To map the output of the Unarchive activity complete the following steps:

### Procedure

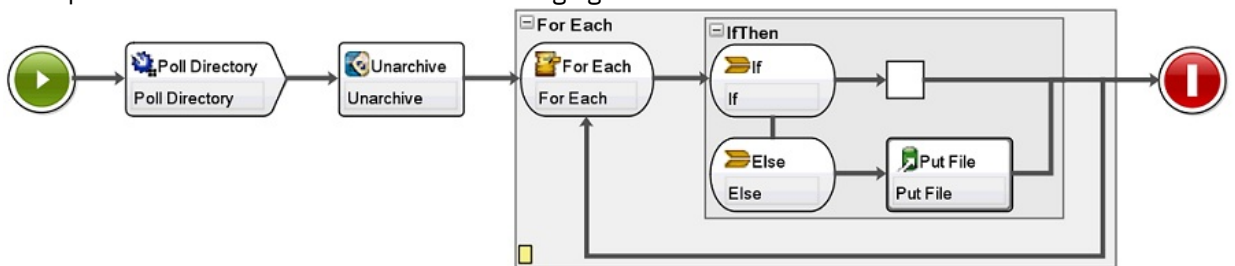
---

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 a 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 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.

Node Name	Required	xsd Type	Description
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	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.

- 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/unarchive\\_activity\\_mapping\\_output.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/unarchive_activity_mapping_output.html)

- [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.

---

## Feedback | Notices

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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.

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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/PGP\\_overview.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/PGP_overview.html)

## 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:

**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
-----------	----------	----------	-------------

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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## 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 <code>base64Binary</code> 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 <code>keyhandle</code> .
armored	Optional	Boolean	Indicates the value that must be set for ASCII Armored output. The default value is <code>False</code> .

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\sekring.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 Iron® Web Management Console documentation.

**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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/aboutdataqualityactivities.html>

## 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 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.

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:

- Click Advanced and enter the following expression: `true()`


OR

- 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 and 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:

<b>Profile Summary Parameter</b>	<b>Description</b>
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	Specifies the data type as either text or number.  By default, the data type is text.  For a numeric data type, the following general statistics are generated: min, max, mean, count, sum, standardDeviation, variance.  For a text data type, the following general statistics are generated: min, max.  For both data types, histograms can be generated to show frequency counts for specific values or value ranges.
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	Generates a PDF of the chart type you specify: <ul style="list-style-type: none"> <li>o bar</li> <li>o pie</li> <li>o none</li> </ul> By default, the Integration Appliance does not generate a chart.

**Parent topic:** [Data Quality Activities](#)

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## 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.

**Parent topic:** [Filtering Expressions](#)

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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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### Feedback | Notices

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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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## Editing a filter expression condition

---

### About this task

---

To edit a filter expression condition complete the following steps.

### Procedure


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- 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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## 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  $(1 - (\text{edit\_distance} / \text{key\_length}))$


The edit distance is  $\text{edit\_distance}(\text{"Stark"}, \text{"Stark"}) = 0$  and  $\text{edit\_distance}(\text{"Stark"}, \text{"Star"}) = 1$

- 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.
  - 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 lookup	Specifies the maximum number of matches to output per fuzzy lookup.
The similarity threshold __ for a fuzzy lookup	Specifies the similarity threshold for determining a match during a fuzzy lookup (between 0 - 1). 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


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Map the [output](#) of the activity.

**Parent topic:** [Lookup Activity](#)

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## 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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## 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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## 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

<b>Merge Type</b>	<b>Description</b>
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

<b>Left Inputs</b>	<b>Right Inputs</b>
<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="00"/&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

<b>Merge Type</b>	<b>Merge Results</b>
Merge 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 Type	Merge Results
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" z="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

---

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.
  - 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.
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.
- [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, DB2®, or Informix® databases.
- [Retry Options For Inbound Database Activities](#)  
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

Endpoints provide the database connection information that Studio and the Integration Appliance use to connect to a database.

### 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

Table 1. Database options

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. For more information about installing the JDBC libraries into the WMC, see the WMC Online help.</p>
Database Name	<p>Specifies the name of the Database to which you want to connect. If connecting to Oracle RAC, see <a href="#">For Oracle RAC:</a>.</p> <p>Note: For AS/400 DB2® databases, this is the collection name defined during installation.</p>

Field	Description
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:
  - o UNIX - /etc/services
  - o 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 properties 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	
Initial Pool Size	Specifies the initial number of database connections that the Integration Appliance opens and places in the connection pool.

Field	Description
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.
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	
Encoding	<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.</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	

Field	Description
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: <code>myTable</code> could refer to table named <code>mytable</code> or <code>MYTABLE</code> but the identifier string with quotes: <code>"myTable"</code> only refers to a table named <code>myTable</code> . Quoting an identifier also allows characters not normally found in database names such as spaces.
Security	
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	
Timeout 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.
- 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-C-XML-US	This is the basic character encoding used on IBM® 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

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 DB2® 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.

Database Entity	Associated Activity Description	How created?
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	<p>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>	<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>

Database Entity	Associated Activity Description	How created?
Stored Procedures	Stored procedures are required with the <b>Call Procedure</b> activity.	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.
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.	Oracle only - The sequences used with inbound single-table activities are created using the following procedure: <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>

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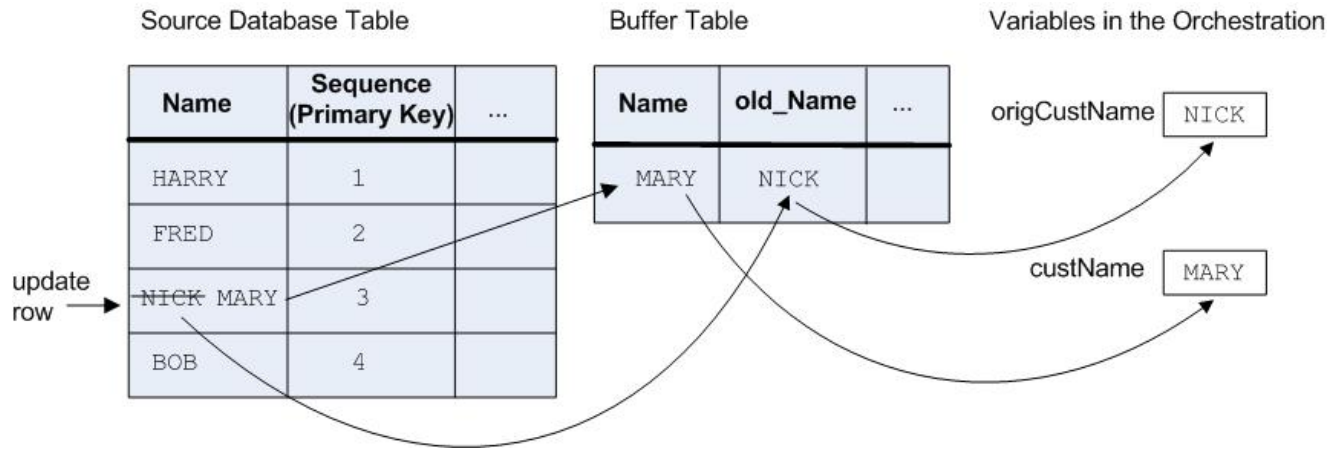
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/conn\\_ref\\_Connector\\_Prerequisites\\_for\\_Database\\_Operations.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/conn_ref_Connector_Prerequisites_for_Database_Operations.html)

## 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



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	
<del>NICK MARY</del>	<del>3</del> 4	

The **Update Rows** activity does a update operation to keep the tables in sync. →


myOutput Database Table

Name	PK	...
HARRY	1	
FRED	2	
<del>NICK MARY</del>	<del>3</del> 4	

Parent topic: [Database Activities](#)

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## MaxPooledStatements Parameter

---

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

---

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 `procedureresult`. 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.

## DB2

---

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 - Enter the collection name.
  - UDB - 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.

**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

---

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	
1) Wait --- secon d(s) betwe en each retry.	Specifies the amount of time (in seconds) that the Integration Appliance waits before trying to establish a connection to the database.

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 database before issuing an error.</p> <ul style="list-style-type: none"> <li>○ If this parameter is set to "0", Studio does not try to reconnect.</li> <li>○ 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>
Activity Timeout	
3) Timeout 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 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	
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 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> <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	

Field	Description
3) Time out after ____ secon ds when the Endpoi nt does not respon d to a reques t.	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.

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

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/conn\\_ref\\_SequeLink\\_Parameters.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/conn_ref_SequeLink_Parameters.html)

## Single-Table Inbound Database Activities

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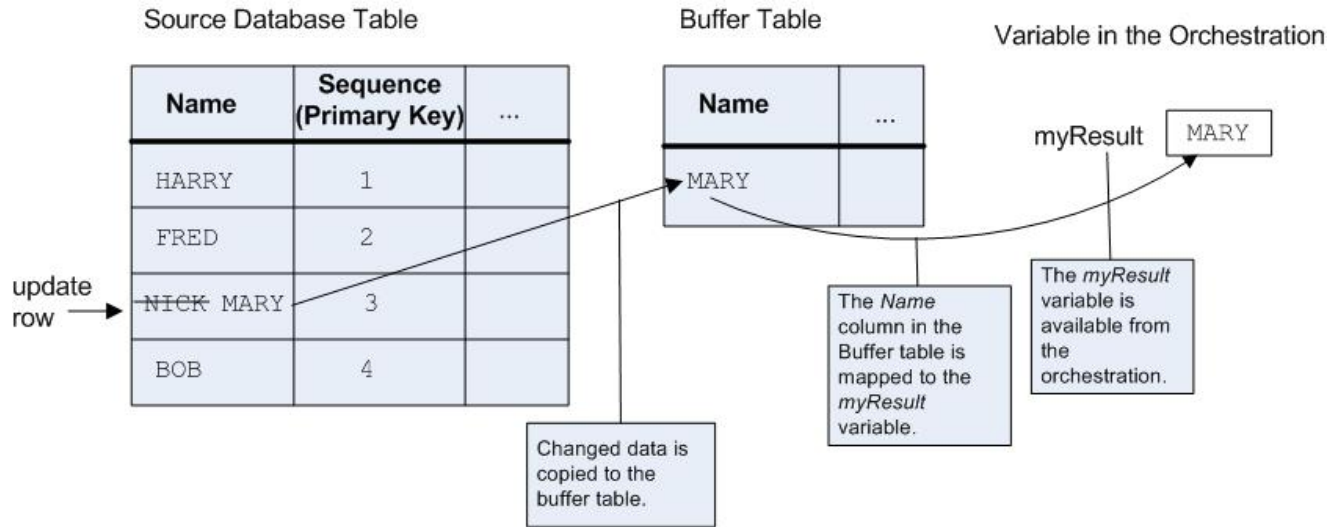
During run time, single-table inbound database activities poll if a database operation has occurred on any rows in the specified columns of a database table at the specified time interval.

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.
- **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:
  - 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](#).

## Select the columns in the source database table that during run time the Integration Appliance polls for changes

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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.
  - 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 not 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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[Feedback](#) | [Notices](#)

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## Single-Table Outbound Database Activities

This section contains the procedures for configuring the following single-table outbound database activities.

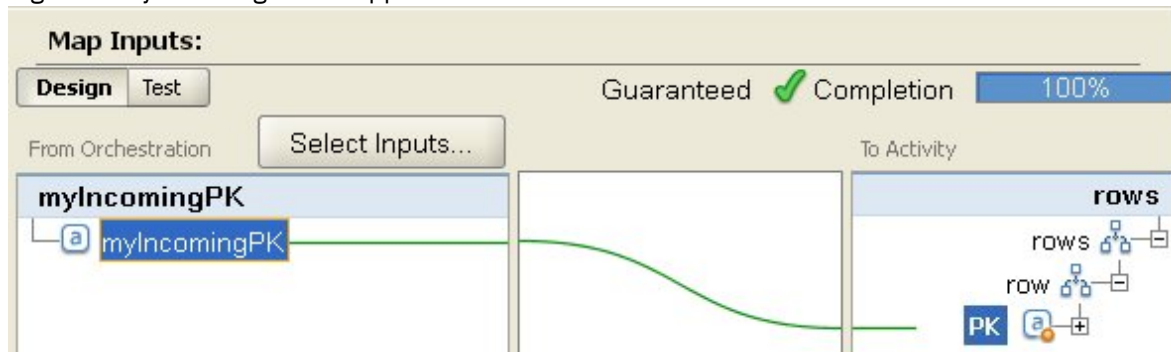
These activities include:

- **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 from the table 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	
<del>MARY</del>	<del>3</del>	

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.
  - 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 not 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

---

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.
- 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 not 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.
  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. 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.

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:
    - 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

---

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.
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 GetRowCount check box determines what is displayed in the Map Outputs pane:

- If the Get Row Counts check box is cleared in the **Delivery Rules**, the Map Outputs pane is blank.
  - If the Get Row Counts check box is selected in the **Delivery Rules**, the Map Outputs pane displays the rowCount element. 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.

**Parent topic:** [Database 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/db\\_singletable\\_outbound\\_database\\_activities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/db_singletable_outbound_database_activities.html)

# Specifying Delivery Rules for Database Activities

---

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

---

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 interval. 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.

Name	Description
Deliver Messages	<p>Select from one of the following options in the Deliver messages pull-down menu:</p> <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 once and only once. 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>.</li> </ul> <p>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.</p> <p>Note: If you select the Exactly Once option, you must enable persistence. For more information, see <a href="#">Enabling persistence</a>.</p>
Delete rows after they have been processed	<p>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:</p> <ul style="list-style-type: none"> <li>◦ If the check box is enabled, during run time the Integration Appliance sets the flag column to <b>M</b> and then deletes the row.</li> <li>◦ If the check box is cleared, during run time the Integration Appliance sets the flag column to <b>M</b> and then <b>P</b> 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	<p>Select from one of the following options in the Deliver messages menu:</p> <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	<p>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> <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>

Name	Description
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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/db\\_specifying\\_delivery\\_rules\\_for\\_database\\_activities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/db_specifying_delivery_rules_for_database_activities.html)

## 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.

### 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.

Parent topic: [Database Activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/conn\\_db\\_Viewing\\_Column\\_Details.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/conn_db_Viewing_Column_Details.html)

# Working with Database Parameters

---

Parameters supply database-specific connection information for an endpoint.

## About this task

---

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

---

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

---

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.

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

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## 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.

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

---

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:
  - o 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.
  - 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](#)

## 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](#).

## 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.


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.

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

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## 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 through 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 output 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.

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

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## 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.

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.

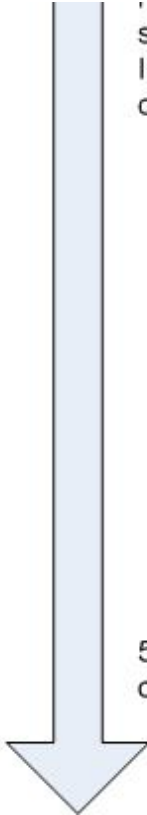
**NOTE:** The outside source must also change the Flag value for the 3<sup>rd</sup> row from *P* to null.

Name	Sequence (Primary Key)	Flag
HARRY	1	P
FRED	2	P
<b>MARY</b>	3	<i>null</i>
BOB	4	P



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

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.



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.



- Size - Size of the column defined in the table. This size is retrieved from the database table and is not configurable
- 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.
- 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 not 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 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:
  - 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.
  - 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

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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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/db\\_poll\\_table\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/db_poll_table_activity.html)

## Testing an SSL Database Connection

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### About this task

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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


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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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## 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.
- [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 Lotus® Domino® 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 Lotus® Domino® 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 Domino® 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 Domino® 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 Domino® 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 Domino® 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 Domino® 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 Domino® 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 Domino® 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 Domino® 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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## 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.

## Selecting or editing a Domino endpoint

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.
DIIO Port	Specifies the Domino Internet Inter ORB Protocol (DIIO) 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 —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 minute.
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

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Use the Create Document activity to create a document in the Domino® server.

### Using the create 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 **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.
  - 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 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
<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 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
<code>dominoConnectionProperties</code> 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 associated with the user name to connect to the Domino server.
<code>connectionPool</code> 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.



Parameters	Description
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 create activity

1. 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.
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 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.
Parent Document	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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## 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](#)

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.

## Specifying the map inputs for update activity

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.

1. 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

The following are the optional parameters that are defined for update activity.

Table 1. Optional parameters

Parameter Name	Description
----------------	-------------

<b>Parameter Name</b>	<b>Description</b>
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	databaseName 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

<b>Parameters</b>	<b>Description</b>
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.

Parameters	Description
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 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.

## 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:

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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 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/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

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

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

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

sID	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.
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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
<code>databaseName</code>	<code>databaseName</code> 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
<code>dominoConnectionProperties</code> 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.
<code>connectionPool</code> 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.

Parameters	Description
<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.
<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.

## 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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file:///dcs/markdown/workspace/Transform/out.html

[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

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
<code>dominoConnectionProperties</code>	parameters

Parameters	Description
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.
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.
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										
<code>queryUsingTimestamp</code>	<p>The following are the <code>timestamp</code> properties:</p> <p style="text-align: center;"><b>Table 4. timestamp properties</b></p> <table border="1"> <thead> <tr> <th>Property</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td><code>groupFields</code></td> <td>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.</td> </tr> <tr> <td><code>name</code></td> <td>Specify one of these values: <code>createdTimestamp</code> or <code>lastModifiedTimestamp</code></td> </tr> <tr> <td><code>operator</code></td> <td>Specify one of these values: <code>GREATER_THAN</code>, <code>GREATER_THAN_OR_EQUAL_TO</code>, <code>EQUAL_TO</code>, <code>LESS_THAN</code>, <code>LESS_THAN_OR_EQUAL_TO</code>, and <code>NOT_EQUAL_TO</code></td> </tr> <tr> <td><code>value</code></td> <td>Specify the date and time values. For example, <code>26-09-2013 12:05:00 PM EST</code>. Note: If you do not mention the timezone, by default, the timezone of the server is considered.</td> </tr> </tbody> </table> <p>Note:</p> <ul style="list-style-type: none"> <li>○ Querying documents that are based on the <code>NOT_EQUAL_TO</code> operator (<code>!=</code>) is not supported in Full Text Search.</li> <li>○ Querying documents using time is not supported in Full Text Search. For example, <code>[_RevisionDate] = 05/06/2013 09:30:00</code>.</li> <li>○ Querying documents using the <code>EQUAL_TO</code> operator with timestamp does not work with the Normal Search type. For example, <code>@Modified = [05/06/2013 09:14:22]</code>.</li> <li>○ 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, <code>lastModifiedDateTime &gt;= 05/20/2013 20:00:00</code> is not supported in Full Text Search.</li> </ul>	Property	Values	<code>groupFields</code>	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.	<code>name</code>	Specify one of these values: <code>createdTimestamp</code> or <code>lastModifiedTimestamp</code>	<code>operator</code>	Specify one of these values: <code>GREATER_THAN</code> , <code>GREATER_THAN_OR_EQUAL_TO</code> , <code>EQUAL_TO</code> , <code>LESS_THAN</code> , <code>LESS_THAN_OR_EQUAL_TO</code> , and <code>NOT_EQUAL_TO</code>	<code>value</code>	Specify the date and time values. For example, <code>26-09-2013 12:05:00 PM EST</code> . Note: If you do not mention the timezone, by default, the timezone of the server is considered.
Property	Values										
<code>groupFields</code>	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.										
<code>name</code>	Specify one of these values: <code>createdTimestamp</code> or <code>lastModifiedTimestamp</code>										
<code>operator</code>	Specify one of these values: <code>GREATER_THAN</code> , <code>GREATER_THAN_OR_EQUAL_TO</code> , <code>EQUAL_TO</code> , <code>LESS_THAN</code> , <code>LESS_THAN_OR_EQUAL_TO</code> , and <code>NOT_EQUAL_TO</code>										
<code>value</code>	Specify the date and time values. For example, <code>26-09-2013 12:05:00 PM EST</code> . Note: If you do not mention the timezone, by default, the timezone of the server is considered.										

10. Create a map between the output parameters and orchestration variables.

You have configured the Domino Query Documents activity.

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

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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	
hostName	Specifies the host name or IP address of the machine on which the 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.

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. Specify the values as described in Table 3:

Table 3. Search type

Parameter Name	Description
KeyValue s	Specify the value for which you want to run a search.
ExactMat ch	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> .

Parameter Name	Description
SearchFormula	Specify a formula for a detailed search as per your requirement.


- 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`.
- Create a mapping between the output parameters and orchestration variables.

You have configured the Domino Query Views activity.

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

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Domino\\_query\\_views\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Domino_query_views_activity.html)

## Deleting a Domino document

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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

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- 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

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- 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
UniversalID	The <code>UniversalID</code> 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 <code>UniversalID</code> 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 <code>NotesID</code> 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
deletedElement	This property specifies if the document is to be deleted during a conflict of delete operation. It is of type boolean.
databaseName	<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	
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 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.

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

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 Last updated: Wednesday, 15 June 2016

## 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.
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>○ When you set this parameter to "0", Studio does not try to reconnect.</li> <li>○ 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

<b>Delivery Rule Fields</b>	<b>Description</b>
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 interval.) 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.
<b>Delivery Messages</b>	
ATM OST_ ONCE	A non-persistent mode in which a document is either processed once or not processed at all.
ATLE AST_ ONCE	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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Domino\\_Specifying\\_Retry\\_Parameters\\_for\\_Domino\\_Activities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Domino_Specifying_Retry_Parameters_for_Domino_Activities.html)

## 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.

- Select the EventTriggerConfigurationView. If there is an entry, edit it. If there is no entry, create a new configuration.
- Enter a value for connector ID. This is optional.
- 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.
  - 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:
  - 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.
  - New... - To create a new endpoint. The Create Endpoint window is displayed.
  - 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.
  - 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.

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:
  - 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.
  - New... - To create a new endpoint. The Create Endpoint window is displayed.
  - 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.
  - 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 select 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.

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.
  - 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:
  - 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.
  - New... - To create a new endpoint. The Create Endpoint window is displayed.
  - 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.
  - 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.

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

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## Rich text support for Domino connector

---

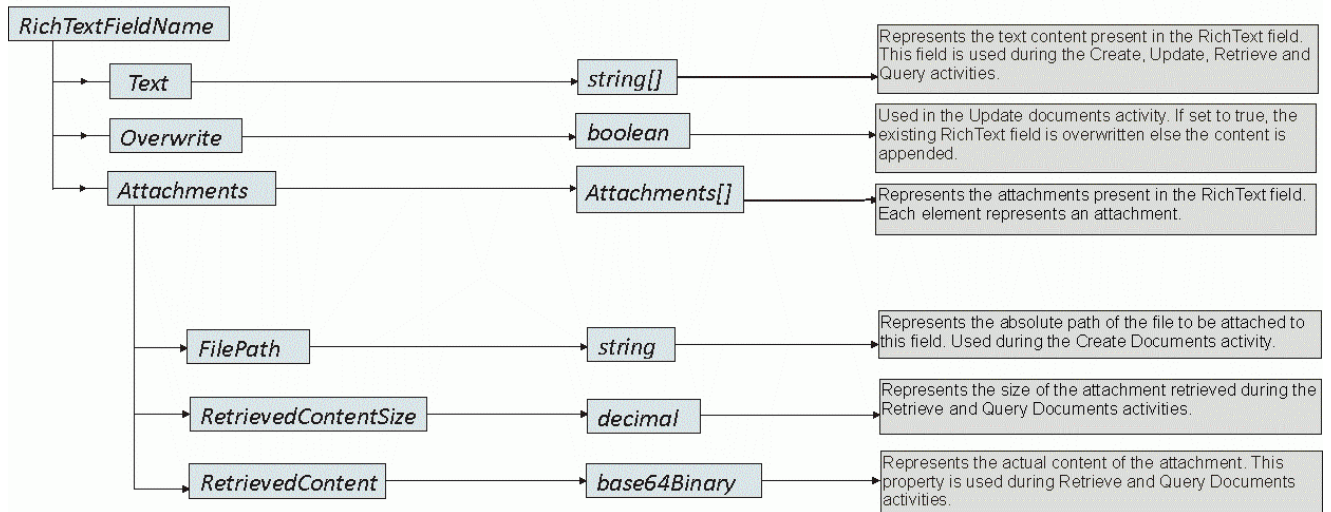
The Domino connector supports RichText type in forms. Fields of RichText type can store both text and attachments as part of the document. The connector supports attachments only for the Retrieve and Query Document activities. Text content can be used for the Create, Update, Retrieve, and Query Document activities.

The following figure describes the structure of the RichText field when a form is discovered and the map input and output are generated.

## MAP INPUT/OUTPUT STRUCTURE

## TYPE

## DESCRIPTION



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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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## 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 and 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
<b>Location</b>	
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.
<b>Login</b>	
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. Select this option only if SMTP server the supports anonymous logins (where a user account is not required).
Log In to the Server Using a User Name and Password	<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.  <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.
User Name	<b>Get Email</b> activity - Enter the User Name for the account used to connect to the POP3 Server.  <b>Send Email</b> activity - Enter the User Name for the account used to connect to the SMTP Server.


Field Name	Description
Password	<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>	
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	Specifies the client alias used to access the trusted certificate in the keystore. 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.
Additional Parameters	<p>Specifies additional parameters for SMPT 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 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>

Field Name	Description
	<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>	
<p>Time out after ___ second(s) when establishing a connection to the endpoint.</p>	<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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/email\\_create\\_edit\\_endpoint.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/email_create_edit_endpoint.html)

## 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.

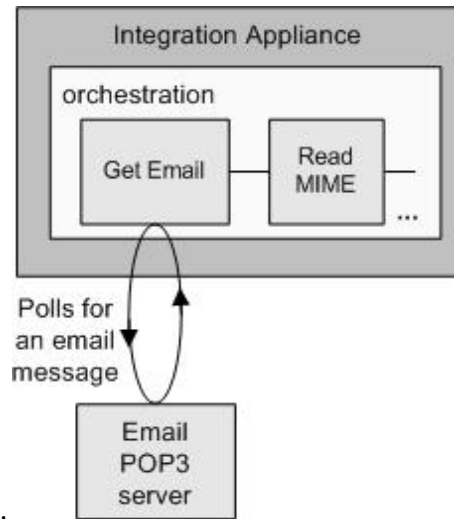


Figure 1.

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 an 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

Regular Expression	Sample Text	Result
?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	
1) Wait — secon d(s) betwe en 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 conne ct — 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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## 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.

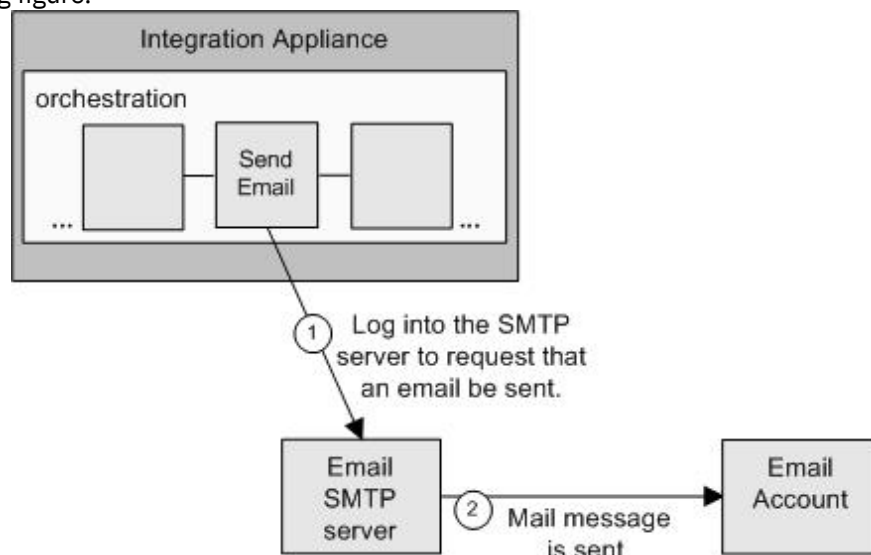


Figure 1.

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:
  - 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:

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	

Field	Description
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 SMTP 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 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 the 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

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?

<b>Nodes of the mailheader Input Parameter</b>	<b>Description</b>	<b>Overrides what settings in the Configuring task?</b>
from	Specifies the sender address for the email message. You must specify the email address using the standard email format: email@domain.extension.	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.
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.

Nodes of the mailheader Input Parameter	Description	Overrides what settings in the Configuring task?
otherHeaders	<p>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:</p> <p><b>otherheaders/headerItem/name</b> is equal to Content-Location</p> <p><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.</p>	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 passes 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

---

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.

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## Preparing data for XML input

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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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SFDCBulkAPI\\_creating\\_an\\_endpoint\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SFDCBulkAPI_creating_an_endpoint_activity.html)

## 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.
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 Force.com Bulk API instance before issuing an error and stopping the processing of the current orchestration job. 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.
<b>Activity Timeout</b>	

Retry Fields	Description
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


---

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

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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 an 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
<b>Location</b>	
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.
<b>Login</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).

<b>Field Name</b>	<b>Description</b>
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: <code>Factory Supplied Identity</code>  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> If your FTP Server supports Active mode transfers, you can configure an FTP endpoint in Studio to use the Active mode to transfer data to and from an FTP Server and the Integration Appliance. By default, FTP endpoints support passive mode transfers. Note: Active mode is not supported for SFTP.
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.

Field Name	Description
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.
Connection Timeout	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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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\\_create\\_edit\\_endpoint.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ftp_create_edit_endpoint.html)

## 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

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Complete following steps only if you plan on running the Parse Directory Listing Example:

- [To edit and test the FTP configuration properties of the FTPParseDirListingExample 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 FTPParseDirListingExample](#)

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 FTPParseDirListingExample in Studio:**

## Procedure

---

1. Open **FTPParseDirListingExample**. 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](#)

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

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[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

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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

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

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

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.  
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.
  - 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.  
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.
  - o 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
Filename	<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>o * - zero or more characters</li> <li>o ? - 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>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: input. (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/input.</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/passwd file for the user account connecting to the FTP Server.</p>

Field	Description
Test	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.
Options	<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>
	<p><b>CAUTION:</b></p> <p>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 "<b>Note</b>" 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>

<b>Field</b>	<b>Description</b>
	<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>	<b>Description</b>
Duplicate List Size	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.

## 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:

- o **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.
- o **Transfer as Binary (BINARY)** - All eight bits of each byte in the file is transferred from the FTP Server to the Integration Appliance. 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	
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.	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.  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.

## 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
file name	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.

Parent topic: [FTP Activities](#)

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## 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

---

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

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 Checklist > Delivery Rules.

## 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>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: <code>/output</code>. (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: <code>/home/user/output</code>.</li> </ul> </li> <li>o Click Browse... to populate the down-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 <code>/etc/passwd</code> file for the user account connecting to the FTP Server.</p>

Field	Description
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>
	<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. 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>○ 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>
<p><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:</p>	
<p>Overwrite Existing File if Duplicate File Name is Found</p>	<p>Specifies if the file already exists, destroys the contents of the original file with new data returned from the activity.</p>
<p>Append to Existing File</p>	<p>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.</p>
<p>Raise Error if File with Duplicate Name is Found</p>	<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 the 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.

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?
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	<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.
overwrite	<p>Specifies the behavior when a existing file of the same name already exists in the specified output directory. Specify one of the following values:</p> <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 ___ 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.

Input Parameter Name /Node	Description	Overrides the Setting in Task?
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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[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\\_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

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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:
  - 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 Configuring 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

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)** - 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.
  - o **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:

  - o `ascii`
  - o `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

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
Filename	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.

Field	Description
From 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 Browse... to populate the down-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/passwd 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>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>○ 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>

## 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	



Field	Description
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 the 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 an 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/timeout	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/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.

con nec tio n/p ass wo rd	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.
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## 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
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](#)

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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\\_get\\_file\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ftp_get_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 Scheme, iterates through the list of files, based on the properties of each file.

### About this task

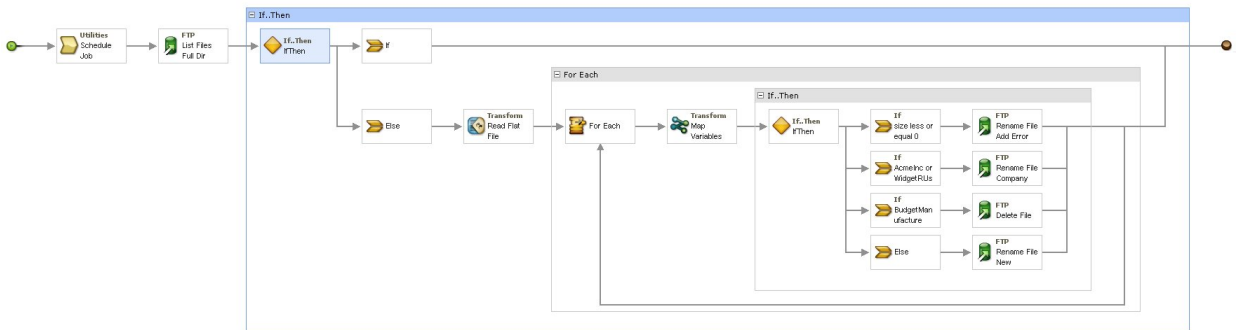
Based on the properties of each file, one of the following actions occurs:

- 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 FTTParseDirListingExample:

## Procedure

1. Extract the FTTParseDirListingExample 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 FTTParseDirListingExample.zip file that contains the files that make up the FTTParseDirListingExample 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\FTTParseDirListing
  - c. Copy the FTTParseDirListingExample.zip file from the FTTParseDirListing directory to the Default Create Path directory.
  - d. Extract the contents of FTTParseDirListingExample.zip file into the Default Create Path directory.
2. Open the FTTParseDirListingExample project:
  - a. Select File > Open Project... from the Studio toolbar menu. The Open dialog box is displayed.
  - b. Browse for and open the FTTParseDirListingExample directory.
  - c. Click on the FTTParseDirListingExample.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:



4. Click the **Schedule Job** activity. Click the **Configure** task in the **Checklist**. During run time, this activity starts an orchestration job every 5 minutes.
5. Click the **FTP List Files** activity labeled List Files Full Dir Listing. Click the **Configure** task in the **Checklist**. This activity gets a long directory listing of the files in the /input directory on the FTP Server and returns the listing as one string in the dirListing output parameter. In this example, the string returned in the directoryListing output parameter is stored in the fullDirectoryListing string variable.

If the [FTP Endpoint has been configured for the Parse Directory Listing Example](#), click Test in the **Configure** task to get the directory listing. The List Only Files (NLST) check box determines if the directory listing contains just the list of files or a full 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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### 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/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


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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://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/FTPS\\_Testing\\_an\\_FTPS\\_Server\\_Connection.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/FTPS_Testing_an_FTPS_Server_Connection.html)

## 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.
- [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 complaint 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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[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)

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## 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.

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.

<b>Field Name</b>	<b>Description</b>
<b>Location</b>	
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.
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.
<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.
Authentication	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: <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>



<b>Field Name</b>	<b>Description</b>
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.
<b>Log into the Server using OAuth 2.0</b>	<b>Description</b>
Grant Type	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. Select one of the following grant types: <ul style="list-style-type: none"> <li>• <code>password</code> - 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>• <code>authorization_code</code> - 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>Security</b>	<b>Description</b>
None	Select the None option if no security is required.

Field Name	Description
HTTPS	<p>Select the HTTPS option to enable secure HTTP over SSL.</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	<p>Select the protocol used for secure HTTP over SSL. By default, the protocol version used is SSL_TLSv2.</p>
<b>Connection Pool Options</b>	
Maximum Connections	<p>Specifies the maximum number of HTTP server connections that the Integration Appliance can keep open in the connection pool. The default value is 25.</p>
<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.	<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 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.</p>

Field Name	Description
<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.
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. Note: Do not prefix the user name with the domain.</li> </ul>
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.
<b>Security</b>	<b>Description</b>

Field Name	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](#)

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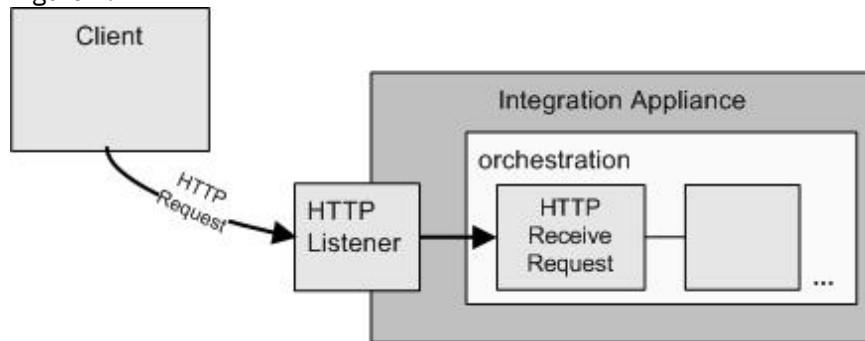
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http\\_create\\_edit\\_endpoint.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http_create_edit_endpoint.html)

## 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

---

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	Description
-------	-------------

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: <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 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 Reply	<p>Specifies if a reply should be sent to the sender of the request.</p> <p>Note: If this check box is selected, you must add and configure a HTTP <b>Send Response</b> activity in your orchestration.</p>

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 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.
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.

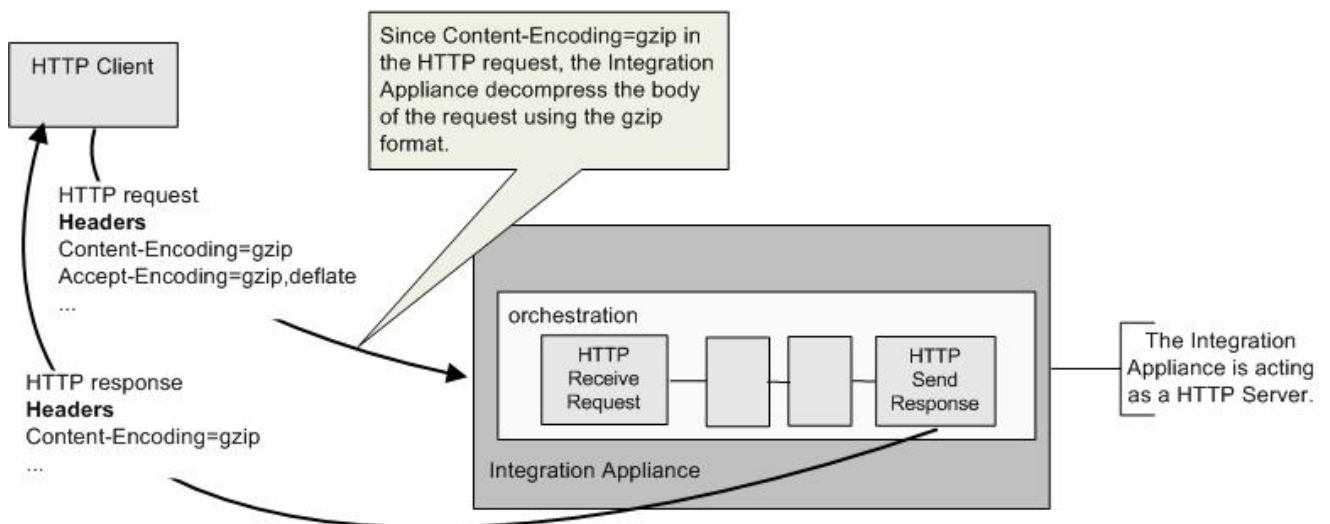
The decompression runtime behavior of the **HTTP Receive Request** activity when receiving a HTTP request is dependant on the following conditions:

- [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.

## 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)</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.
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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file:///dcs/markdown/workspace/Transform/out.html

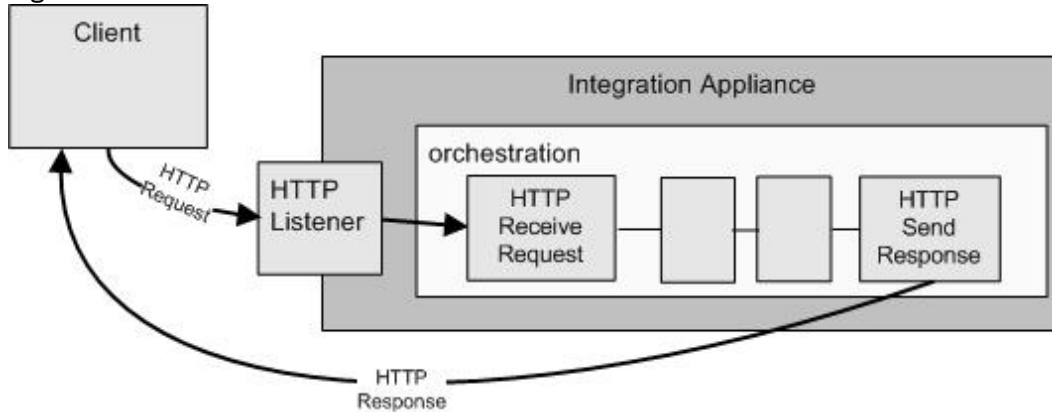
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/decompression\\_with\\_the\\_http\\_receive\\_request\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/decompression_with_the_http_receive_request_activity.html)

## 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 HTTP <b>Send Response</b> activity. During run time, the associated HTTP <b>Receive Request</b> activity receives the request from the client and the HTTP <b>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 HTTP <b>Receive Request</b> activity.
Of Type	Specifies the message type of the HTTP response - either Text or Binary.
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

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

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, <code>FTP Put(uploadfile):50ms;Send Email(postinfo):30ms;</code> . 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 Via 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.

<b>Nodes of the http headers Input Parameter</b>	<b>Description</b>
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 name you selected or entered.
httpheaders/other Headers/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.
httpheaders/other Headers/headerItem/name	Specifies the name of the HTTP parameter.
httpheaders/other Headers/headerItem/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

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:

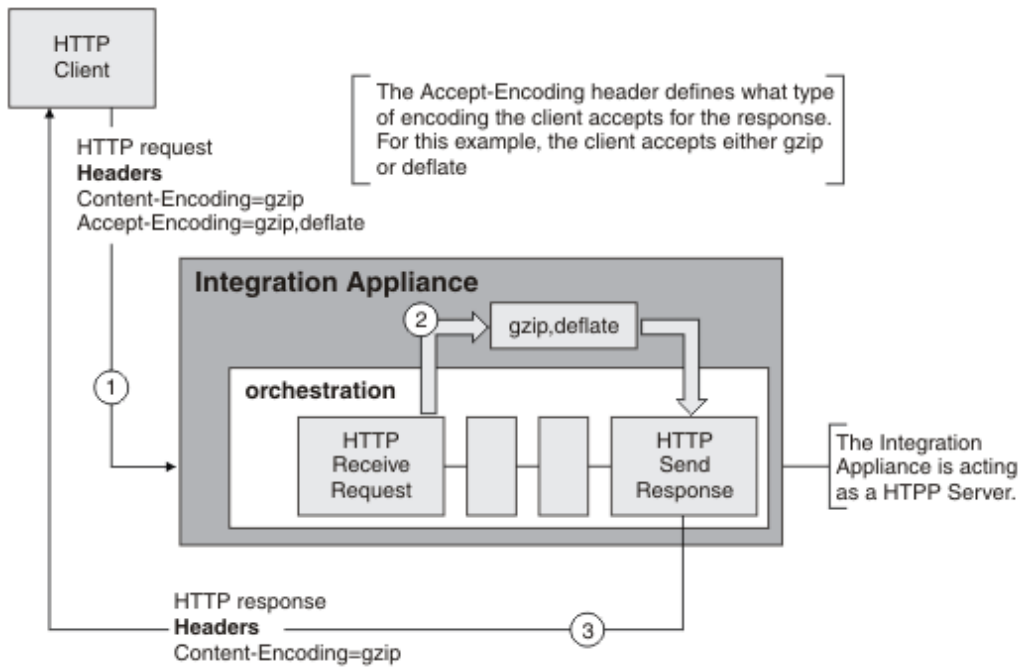
- [At the message level, the value of the Accept-Encoding header in the original HTTP request](#) received by the **HTTP Receive Request** activity is passed to the **HTTP Send Response** activity to determine if the body of the HTTP response is compressed or not compressed as shown in the following 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




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.
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

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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

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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 **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:

- 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
URL (Path after Host name)	<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.

Field or Check Box	Description
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 <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 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.

- 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

- 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.
- 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.
- 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

- Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
- 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>	
1) Wait  — secon ds betwe en each retry.	The number of seconds that the Integration Appliance waits before trying to establish a connection to the HTTP Server.
2) Try to conne ct — 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 <b>Post 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.</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>

Fields	Description
<b>Activity Timeout</b>	
3) Timeout 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/path Parameters	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/query Parameters	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.

<b>Nodes of the httpheaders Input Parameter</b>	<b>Description</b>
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.

<b>Nodes of the httpConnParameter Input Parameter</b>	<b>Description</b>	<b>Overrides what settings in the HTTP endpoint?</b>
timeout	Specifies the amount of time in seconds before a timeout occurs.	
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.

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.
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/<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

---

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:
  - 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 Host name )	<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..

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 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	<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. 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	
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 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 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 Endpoint does not respo	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> .

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## 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 <code>httpheaders</code> Input Parameter	Description
<code>httpheaders/uri</code>	Specifies the resource path, for example: <code>/myPath</code> .
<code>httpheaders/&lt;configured_header_name&gt;</code>	If you configured at least one request header in the Request Headers step, each is displayed here. <code>&lt;configured_header_name&gt;</code> is replaced with the actual header names you selected or entered.
<code>httpheaders/pathParameters</code>	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.
<code>httpheaders/queryParameters</code>	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.
<code>httpheaders/otherHeaders/headerItem</code>	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.
<code>httpheaders/otherHeaders/headerItem/name</code>	Specifies the name of the HTTP header parameter.
<code>httpheaders/otherHeaders/headerItem/value</code>	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.

<b>Nodes of the httpConnParameter Input Parameter</b>	<b>Description</b>	<b>Overrides what settings in the HTTP endpoint?</b>
timeout	Specifies the amount of time in seconds before a timeout occurs.	
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 username 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 password 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.

<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.

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

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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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 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/http\\_get\\_request\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/http_get_request_activity.html)

## HTTP Head Request activity

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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

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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 **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 Host name)	<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: <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. 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>

Field or Check Box	Description
Where Request Message is Of Type	Specifies the expected message type of the HTTP response - 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 <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.



- 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

- 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.
- 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.
- 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

- Select the **Retry** task from the **Checklist**. The Retry pane is displayed.
- 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	
1) Wait --- secon ds betwe en 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 conne ct ___ 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>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 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 ---	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>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

seconds when the Endpoint does not respond to a request.	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> .
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## 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 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 recurring node.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP 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`, 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.

<b>Nodes of the httpConnParameter Input Parameter</b>	<b>Description</b>	<b>Overrides what settings in the HTTP endpoint?</b>
timeout	Specifies the amount of time in seconds before a timeout occurs.	
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.

<b>Output Parameter</b>	<b>Description</b>
httpheaders	Specifies the header of the HTTP request.
body	Specifies the body of the HTTP request message.

Output Parameter	Description
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.

Table 5.

Nodes of the httpheaders Output Parameter	Description
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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 Last updated: Wednesday, 15 June 2016  
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## HTTP Invoke Request activity

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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

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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 **Invoke Request** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed.

### 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:
  - 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
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Field or Check Box	Description
URL (Path after Host name)	<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.
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.

Fields	Description
<b>Retry</b>	
1) Wait  -- secon ds  betwe en each retry.	The number of seconds that the Integration Appliance waits before trying to establish a connection to the HTTP Server.
2) Try to conne ct -- 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 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.</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>Activi ty Timeo ut</b>	



Fields	Description
3) Time out after ____ secon ds when the Endpo int does not respo nd to a reque st.	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> .

## 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/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.
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.

<b>Nodes of the httpheaders Input Parameter</b>	<b>Description</b>
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.

<b>Nodes of the httpConnParameter Input Parameter</b>	<b>Description</b>	<b>Overrides what settings in the HTTP endpoint?</b>
timeout	Specifies the amount of time in seconds before a timeout occurs.	
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.

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.
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.

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[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

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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

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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 **Put Request** activity onto the orchestration.
4. Select the activity. The **Checklist** is displayed.

### 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:
  - 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
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Field or Check Box	Description
URL (Path after Host name )	<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 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 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	
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 HTTP <b>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 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 Endpoint does not respo	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>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 HTTP Endpoint tab. For more information about connection timeout, see <a href="#">Creating or Editing a Web Services Endpoint</a> .

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## 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 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.

<b>Nodes of the httpheaders Input Parameter</b>	<b>Description</b>
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 recurring node.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP 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`, 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.



<b>Nodes of the httpConnParameter Input Parameter</b>	<b>Description</b>	<b>Overrides what settings in the HTTP endpoint?</b>
timeout	Specifies the amount of time in seconds before a timeout occurs.	
host	Specifies the host name or IP address of the remote HTTP server.	The host 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 port 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 isSecure 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 username 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 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.

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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[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

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 Host name)	<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>

Field or Check Box	Description
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 <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	
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	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>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

<p>failing .</p>	<p>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>
<p>3) Time out after ____ secon ds when the Endpo int does not respo nd to a reque st.</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 HTTP <b>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>.</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 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.

<b>Nodes of the httpheaders Input Parameter</b>	<b>Description</b>
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/query Parameters	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>Nodes of the httpheaders Input Parameter</b>	<b>Description</b>
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.
httpheaders/otherHeaders/headerItem/name	Specifies the name of the HTTP 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`, 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.

<b>Nodes of the httpConnParameter Input Parameter</b>	<b>Description</b>	<b>Overrides what settings in the HTTP endpoint?</b>
timeout	Specifies the amount of time in seconds before a timeout occurs.	
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.

Table 5.

Nodes of the httpheaders Output Parameter	Description
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.



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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.

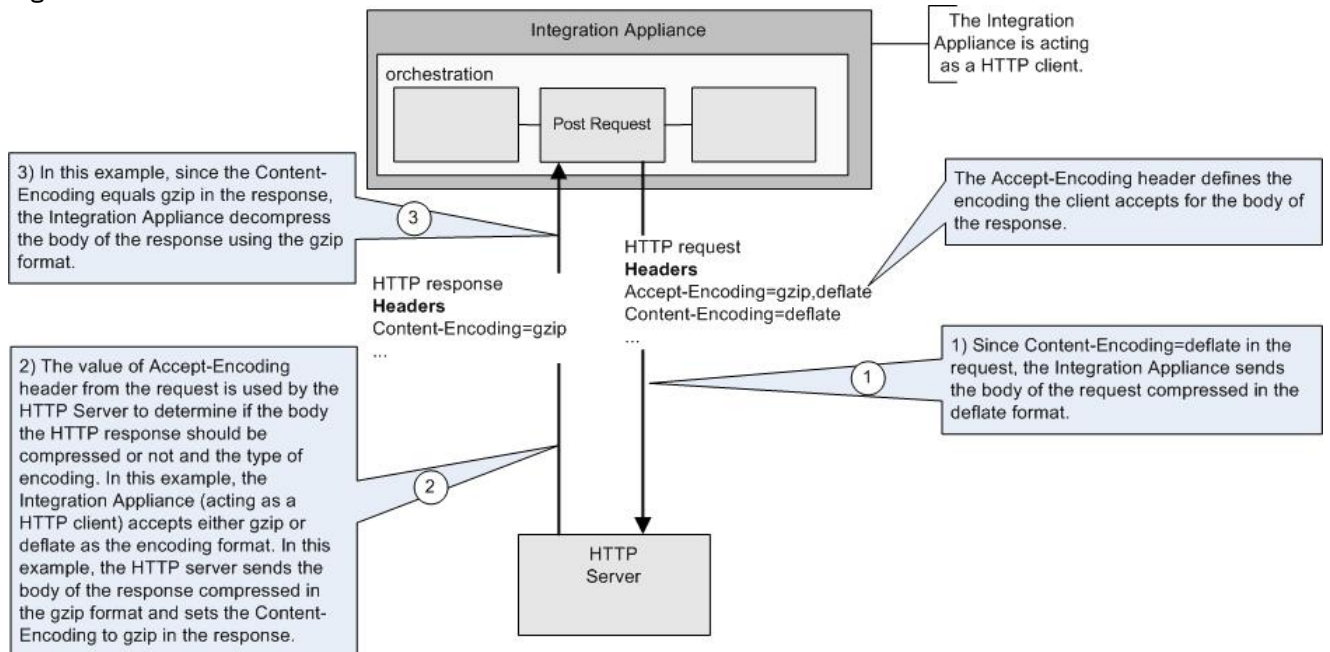
### Content-Encoding and Accept-Encoding values at the message level

---

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.

Use Compression/Decompression Check Box (Activity Level)	Content-Encoding Value in the HTTP Request (Message Level)	Endpoint Supports Compression?	Integration Appliance Compression Runtime Behavior When Sending a Request
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 <b>gzip</b> 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 <b>deflate</b> 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.

## 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 Server
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.
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 significant	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.


Use Compression/Decompression Check Box (Activity Level)	Content-Encoding Value in the HTTP Response (Message Level)	Endpoint Supports Compression?	Integration Appliance Decompression Runtime 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.

Use Compression/Decompression Check Box (Activity Level)	Content-Encoding Value in the HTTP Response (Message Level)	Endpoint Supports Compression?	Integration Appliance Decompression Runtime Behavior When Receiving a 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: [HTTP 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 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 `jmxport`. 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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## 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).
- [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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## Overview of the JD Edwards (JDE) connector

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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).

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.




Field Name	Description
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 – 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 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

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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

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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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/JDEnew\\_Importing\\_JDE\\_Libraries.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/JDEnew_Importing_JDE_Libraries.html)

## 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](#)

---

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

## 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

---

1. In an active orchestration, open the Activities tab and expand the JDE folder.
2. Drag the Invoke Business Function activity icon onto the orchestration. The JDE Invoke Business Function 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 Business Function panel, click Browse to browse for business function names.
11. 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.
12. 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.

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 JDE Activities](#).
14. 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.

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 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

Ret ry Fie lds	Description

<b>Retry Fields</b>	<b>Description</b>
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.
Retry count	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 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: [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

<b>Delivery Rules Fields</b>	<b>Description</b>
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.
<b>Delivery Messages</b>	

Delivery Rules Fields	Description
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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## 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_JMSactivities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_JMSactivities.html)


## 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 JNDI 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.

<b>Delivery Option</b>	<b>Description</b>
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.
ALMOST_ONCE	In this non-persistent mode, a message may be lost, but JMS does not deliver multiple copies of a message.
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.

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](#)

---

#### Feedback | Notices

## 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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## 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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## 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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## 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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## 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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## 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](#)

---

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

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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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## Feedback | Notices

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/JMS\\_Subscribe\\_Configuring\\_Subscribe\\_Message\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/JMS_Subscribe_Configuring_Subscribe_Message_Activity.html)

## Mapping the Outputs

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Outputs represent data that is transmitted from the JMS activity (parameters) to the orchestration (variables).

### Before you begin

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If required, you can create a custom mapping variable in the Source or Destination column by following the steps in [Creating variables](#)

### Procedure

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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:  <code>weblogic.jndi.WLInitialContextFactory</code>  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:  <code>t3://:7001</code>  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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## 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_MQactivities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_MQactivities.html)

## 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:
  - 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.
  - New to create a new endpoint.
  - 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
<b>Location</b>	
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.

Field	Description
<b>Login</b>	
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
	Note: For some of the fields in the endpoint, you can <a href="#">define configuration properties</a> 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.
<b>Connection Pool Options</b>	(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.
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

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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


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You can now create MQ connector endpoints and orchestrations.

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

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## Defining and loading an XML schema for a MQRFH2 header

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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:

- Define the consolidated structure as a single `NameValueData` element.
  - List all the parameters, in the order they occur in the MQRFH2 header, as elements inside `NameValueData` element.
  - Parameter names must be unique.
  - Parameter, group, and property names must be valid XML names. See the XML specification or MQ documentation for more information.
  - Each parameter must be wrapped in a single element. MQ documentation refers to this parameter element as a folder.
  - Parameters may contain properties, groups, or both.
  - Groups and properties may repeat.
  - Groups can nest inside other groups.
  - 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 message	Specifies if the messages on the queue have unique IDs.

s have Unique ID's	
--------------------------	--

## 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 each retry.	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> .
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 the 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.

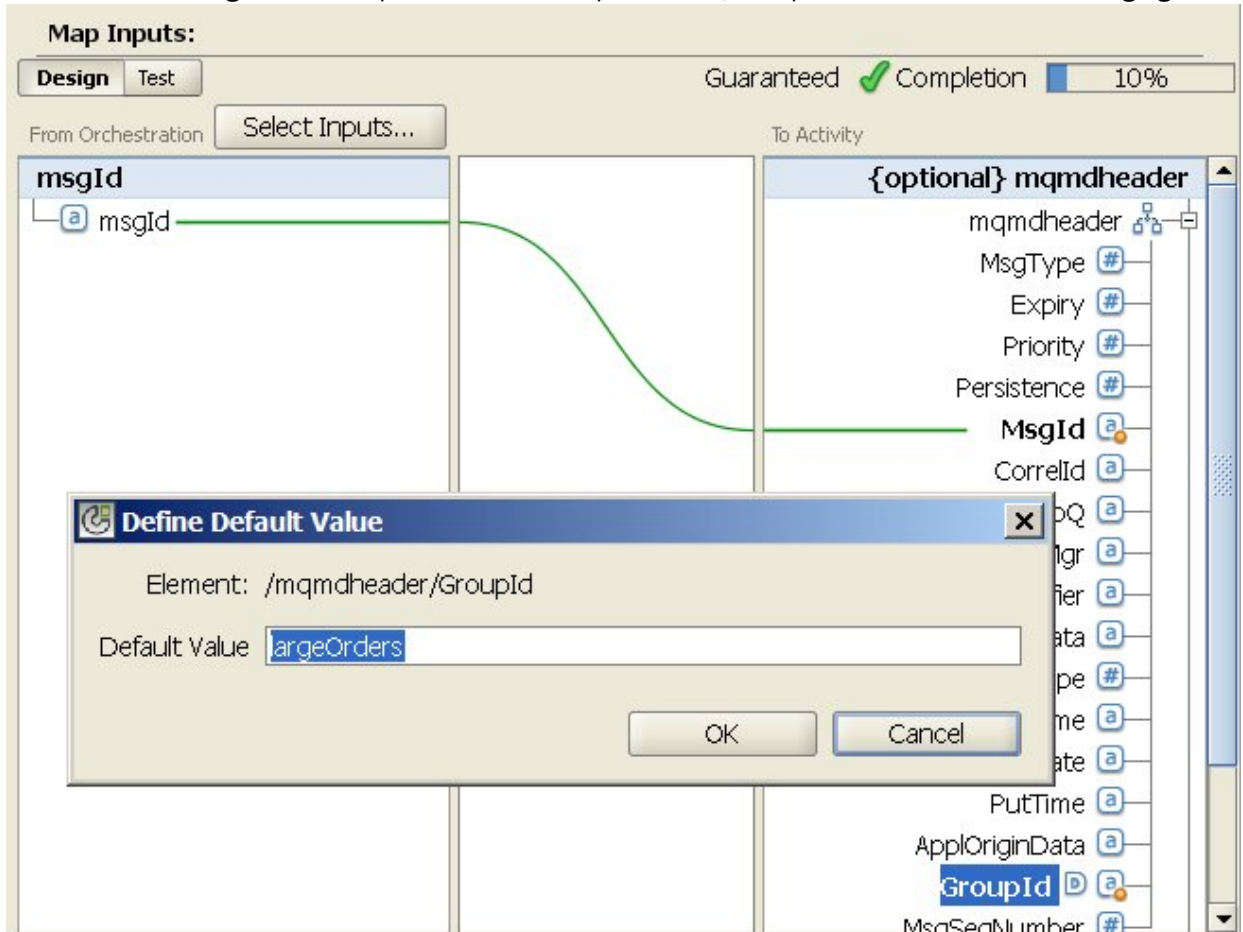
You can constrain the type of message returned by the MQ Get Message activity by mapping any combination of the following nodes of the mqmdheader optional input parameter:

- o mqmdheader/MsgId
- o mqmdheader/CorreId
- 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

Input Parameter Name/Node	Description	Overrides the Setting in Task?
timeout	<p>Specifies the amount of time that the Integration Appliance waits after requesting to retrieve a message from the queue before retrying.</p> <p>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.</p>	The timeout input parameter overrides the Timeout field of the Configure task.
queue name	Specifies the name of the MQ queue where the Integration Appliance looks for messages.	The queue name input parameter overrides the encoding specified in the Queue Name 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:

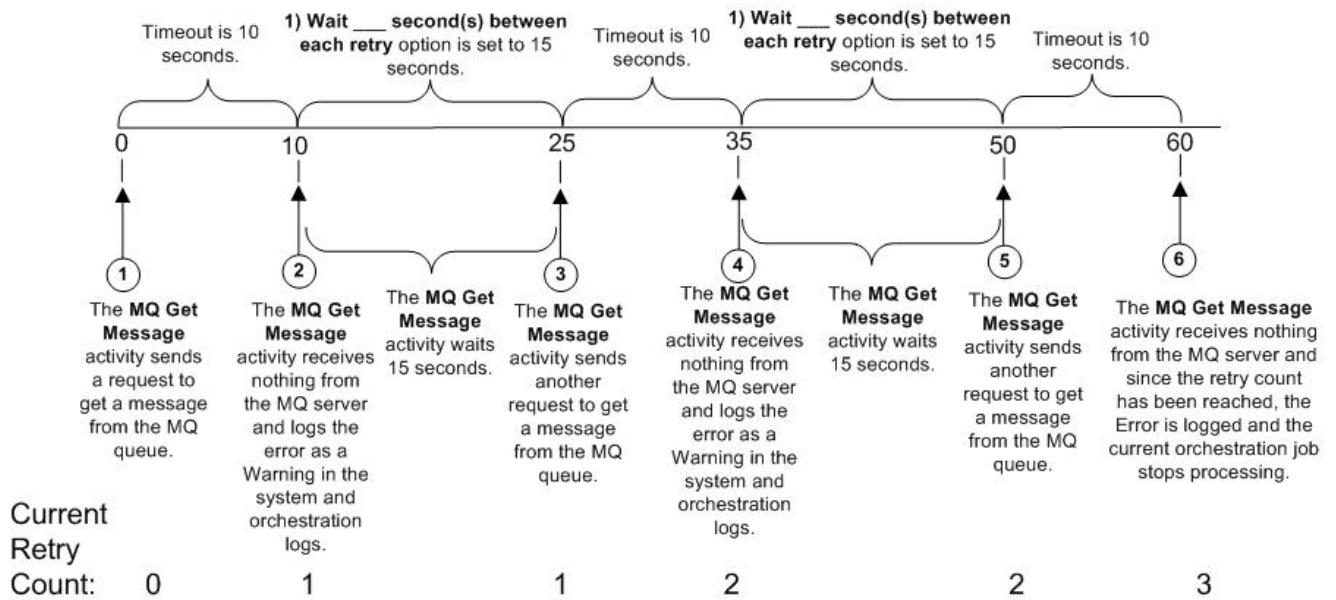
- The Timeout field in the Configure task is set to 10 seconds and the optional timeout input parameter is not mapped and no default value is defined.
- The 1) Wait \_\_\_ second(s) between each retry option is set to 15 seconds.
- The 2) Try to connect \_\_\_ times before failing option is set to 2.

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

Time in seconds →



Parent topic: [MQ Activities](#)

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

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## MQ Put Message activity

Use the MQ Put Message activity sends a message to the specified 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, 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	<p>Datagram - Select if the message should be sent and no reply is needed.</p> <p>Request - Select if the message should have a reply. Be sure to set the Reply to Queue property for request messages.</p> <p>Response - Select if the message is a reply to a previous request.</p>
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	<p>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).</p> <p>Note: The priority should not exceed the maximum priority number set for the MQ queue. Check with your MQ system administrator for this information.</p>
Message Expiration	<p>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.</p> <p>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.</p>
Schema Fragment for MQRFH2 Header	<p>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.</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
Delivery	The options available here are:

Messages	<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> </ul>
----------	--

## 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.	<p>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.</p> <p>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 the 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 error as an error and stops processing the current orchestration job.</p>

## 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.

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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 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
-------	-------------

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	<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>

## 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 connect ___ times before failing.	<p>Specifies the maximum number of times the Integration Appliance attempts to retrieve messages from the MQ Server 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>

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.

## 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.

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

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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"?>
<NameValueData>
  <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>
</NameValueData>

```

## 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="NameValueData">
  <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:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

```




```
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
</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>
```

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

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# 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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# 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:
  - o Browse - To select an existing endpoint from the project.
  - o New - To create a new endpoint.
  - o 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:

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

- o 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.

- o 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:
  - 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 Browse to display the Browse NetSuite dialog.
7. In the Browse NetSuite dialog, click Show Record Types and select one of the following options:
  - 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, select a record type by completing 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 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:
  - 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, 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

---

You 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:
    - Set 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.
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.

**Parent topic:** [Attach Records activity](#)

---

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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:
  - 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 Browse to display the Browse NetSuite dialog.
  7. In the Browse NetSuite dialog, click Show Record Types and select one of the following options:
    - 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, in the Configure pane, click Refresh after the record type is set.
  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 Delete Records activity](#) for more information.
  14. 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

---

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 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:
  - 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 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:
    - 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.
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.

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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:
  - 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:
  - 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 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
Credit Memo	Customer
Credit Memo	Invoice
Credit Memo	Return Authorization
Customer Payment	Customer
Customer Payment	Invoice
Estimate	Opportunity
Invoice	Customer
Invoice	Estimate


Transaction Record Type	Related Initialization Record
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](#).

- 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 Browse to display the Browse NetSuite dialog.
  - 7. In the Browse NetSuite dialog, click Show Record Types and select one of the following options:
    - 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 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](#).

- 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 Browse to display the Browse NetSuite dialog.
  - 7. In the Browse NetSuite dialog, click Show Record Types and select one of the following options:
    - 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 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:
- 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:
  - 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 Browse to display the Browse NetSuite dialog.
7. In the Browse NetSuite dialog, click Show Record Types and select one of the following options:
  - 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 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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## 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:** [Upsert Records Activity](#)

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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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## 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

<b>Retry Fields</b>	<b>Description</b>
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.
<b>Activity Timeout</b>	
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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## 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](#)

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## 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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## 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 "`[ContactFirstName] = 'Jo*'`". To query for contact objects whose given name is *John*, type "`[ContactFirstName] = 'John'`". To query for contact objects whose name is *Jane Doe*, type the query string "`([ContactFirstName] = 'Jane') AND ([ContactLastName] = 'Doe')`".
- 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](#)

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## 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.
- [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.

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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.

## 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 Java™ applets or applications to access the database.




Field Name	Description
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 —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:
  - 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. 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

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You have configured the Oracle E-Business Suite Retrieve Objects activity.

**Parent topic:** [Oracle E-Business Suite Activities](#)

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

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/OracleEBS\\_retrieveobjects.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/OracleEBS_retrieveobjects.html)

# 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

<b>Retr y Field s</b>	<b>Description</b>
Wait __ seco nd(s) betw een 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 conn ect __ time s befor e failin g.	<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>○ When you set this parameter to 0, Studio does not try to reconnect.</li><li>○ 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 _____ days/hours/minute s/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 interval.) 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 Oracle database in each poll cycle.
<b>Delivery Messages</b>	
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.

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## PeopleSoft activities

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- [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.
- [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](#)

## Feedback | Notices

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/PeopleSoft\\_Overview.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/PeopleSoft_Overview.html)

## 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.

Field Name	Description
Port	Specifies the PeopleSoft Internet port that allows Java™ 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 —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 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
- psjoa.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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/PeopleSoft\\_installing\\_jarfiles.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/PeopleSoft_installing_jarfiles.html)

# 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/PeopleSoft\\_create\\_component.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/PeopleSoft_create_component.html)

## 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](#)

---

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

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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/ps/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:
  - o `CompIntfc.CompIntfcPropertyInfo`
  - o `CompIntfc.CompIntfcPropertyInfoCollection`
  - o All beginning with `CompIntfc.IBM_EVENT_CI`
  - o 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 .\psjoa.jar PeopleSoft\Generated\CompIntfc\*.java
$ jar -cvf PSFTCI.jar PeopleSoft\Generated\CompIntfc\*.class
```

These two JAR files `psjoa.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 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: [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

<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 PeopleSoft server. (For example, the Get Component Interfaces activity polls for Create Component Interfaces activity at the specified time interval.) 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.
<b>Delivery Messages</b>	
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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/PeopleSoft\\_Specifying\\_Retry\\_Parameters\\_for\\_PeopleSoft\\_Activities.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/PeopleSoft_Specifying_Retry_Parameters_for_PeopleSoft_Activities.html)

## RightNow SOAP API Activities

---


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

## Overview of the RightNow SOAP API connector

---

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](#)

---

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

## 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

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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


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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 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 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


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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.
<b>Activity Timeout</b>	
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

- [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

Salesforce.com endpoints provide information that Studio and the Integration Appliance use to connect to a Salesforce.com 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 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:
  - 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.
  - New: To create a new endpoint. The Create Endpoint window opens. Go to step 5.
  - 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:

<b>Login Options</b>	<b>Description</b>
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:

<b>Option</b>	<b>Description</b>
<b>Field name</b>	<b>Description</b>
<b>Connect via a Proxy Server</b>	Select this check box to enable the fields to connect through a proxy server.
<b>Authentication</b>	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>○ Basic - Sends the user name and password you specify unencrypted to the server. This authentication schema is the least secure.</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. 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
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 needed to connect to the proxy server.
Username	Specify the user name needed to connect to the proxy server.
Password	Specify the password needed to connect to the proxy server.


- 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

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### 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.

**Parent topic:** [Salesforce.com activities](#)

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## 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.

### 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Setting\\_Salesforce.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Setting_Salesforce.html)

## 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.

### 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.	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

---

### 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>&lt;i&gt;</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>&lt;i&gt;</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 <i>&lt;n&gt;</i> 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 <i>&lt;n&gt;</i> 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](#)

## 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:

- o UserTerritoryDeleteHeader
- 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:** [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 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 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 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](#).

**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 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

- 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:** [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](#)

---

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

 Last updated: Wednesday, 15 June 2016  
file:///dcs/markdown/workspace/Transform/out.html

## 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](#)

**Parent topic:** [Salesforce.com activities](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Get\\_User\\_Information\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Get_User_Information_Activity.html)

## 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Merge\\_Objects\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Merge_Objects_Activity.html)

## 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Merge\\_Objects\\_Activity\\_Mapinput.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Merge_Objects_Activity_Mapinput.html)

## 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Merge\\_Objects\\_Activity\\_Mapoutput.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Merge_Objects_Activity_Mapoutput.html)

## 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:

- 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.

**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:

- If the field being retrieved is null, the Integration Appliance sets the xsi:nil attribute to true in the result.

**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:
  - MruHeader

- CallOptions
  - connection
  - 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. The schema is defined as follows:


- For fields, the field type matches the SOAP type of the field. The field type is nillable if the SOAP type is nillable.
  - 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.
  - 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.
  - 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`.
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 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 Expression	Description
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 nillable and the operator is (=) or (!=), then the parameter is nillable. 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 nillable 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>
Parameters	Parameters inside a set list are treated like a simple expression parameter type, for example:

t of	SELECT Name from Account where BillingState IN ('California', \$state2)
a	
Set	In this example, the \$state2 parameter type is the SoapType of the Account BillingState field and
Ex	is not a repeating element. The parameter is not nillable.
pre	
ssi	
on	

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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:
  - o MruHeaderUser
  - 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:

- 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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## Feedback | Notices

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

# 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

Parameter	Valid or Invalid
\$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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## Feedback | Notices

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Configuring\\_the\\_Search\\_Objects\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Configuring_the_Search_Objects_Activity.html)

# 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:
  - AssignmentRuleHeader
  - MruHeader
  - EmailHeader
  - CallOptions
  - connection
  - 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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## Upsert Objects activity

---

Use this activity to update existing objects or create new objects in Salesforce.com.

### 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 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.

### 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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- [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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## 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.

### Procedure

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 —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 —To create a new endpoint. The Create Endpoint window is displayed.
  - Edit —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.



Field	Description
<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>	
Note: The values specified in this section are only used by the Receive IDOC activity.	
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>	
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 `sapjdoc30P_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 `sapjdoc30P_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\sapjdoc30P_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

---

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

---

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

 Last updated: Wednesday, 15 June 2016

# Configuring Single Sign-on (SSO) and Secure Network Communications (SNC) for SAP connector

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## Before you begin

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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:
  - X509 certificate
  - X509 certificate, username (user of the certificate), and a dummy password
  - 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](#)

## 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 Window's 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:
  - 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 pane 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 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.
  - 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:

<b>Re try op tio ns</b>	<b>Description</b>
1) Wa it  -- - se co nd s be tw ee n ea ch ret ry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the SAP System.
2) Try to co nn ect  -- - ti	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 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

me s be for e fail ing .	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 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
<code>sapConnectionProperties</code> parameters	
<code>hostName</code>	Specifies the IP Address or the machine name that contains the SAP system.
<code>systemNumber</code>	Specifies the number that identifies the specific instance of the SAP system that Studio should connect to. Your SAP administrator must supply this information.
<code>client</code>	Specifies a number that identifies Studio and the Integration Appliance as a client for the SAP system. Your SAP administrator must supply this information.
<code>language</code>	Specifies the message language option for SAP. For example, EN is the ISO code for English.
<code>basicAuthentication</code> parameters	
<code>username</code>	Specifies the user name to use when connecting to the SAP system.
<code>password</code>	Specifies the password to the user name when connecting to the SAP system.
<code>ssoAuthentication</code> parameters	
<code>ssotoken</code>	Specifies the single sign-on (SSO) token.
<code>sncAuthentication</code> parameters	
<code>sncmode</code>	Specifies if the Secure Network Connections (SNC) mode is enabled.
<code>sncname</code>	Specifies the distinguished name of the SNC connection.
<code>partner</code>	Specifies the distinguished name of the SNC partner.
<code>qop</code>	Specifies the level of security of SNC.
<code>X509 Certificate</code>	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.

Optional parameter	Description
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.

2. 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

1. 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.
2. 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](#)



## 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\* —Finds all the RFC whose names begin with the AB prefix.
  - o AB\*TRANSACTION —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:

Re try op tio ns	Description
1) Wa it  — — se	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the SAP System.

co nd s be tw ee n ea ch ret ry.	
2) Try to co nn ect — — ti me s be for e fail ing ·	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 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.

## Mapping the inputs of the activity

1. 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.
2. 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:

1. 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.
2. 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
COMMIT_HA NDLED_BY_R FC	The commit of RFC is taken care by the RFC itself. The connector does not do any explicit commit calls.
COMMIT_TRA NSACTION_A FTER_COMPL ETION	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: <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_TRA NSACTION_A ND_WAIT_UP ON_COMPLET ION	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: <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
<code>sapConnectionProperties</code> 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.
<code>basicAuthentication</code> parameters	

Optional parameter	Description
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.

## 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

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 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 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


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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:
  - 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.

## 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:

Re try op tio ns	Description
1) Wa it — — — se co nd s be tw ee n ea ch ret ry.	Specifies the number of seconds that the Integration Appliance waits before trying to establish a connection to the SAP System.

2) Try to co nn ect __ _ ti me s be for e fail ing .	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 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.
--	---

## 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
<code>sapConnectionProperties</code> parameters	
<code>hostName</code>	Specifies the IP Address or the machine name that contains the SAP system.
<code>systemNumber</code>	Specifies the number that identifies the specific instance of the SAP system that Studio should connect to. Your SAP administrator must supply this information.
<code>client</code>	Specifies a number that identifies Studio and the Integration Appliance as a client for the SAP system. Your SAP administrator must supply this information.
<code>language</code>	Specifies the message language option for SAP. For example, EN is the ISO code for English.
<code>basicAuthentication</code> parameters	
<code>username</code>	Specifies the user name to use when connecting to the SAP system.
<code>password</code>	Specifies the password to the user name when connecting to the SAP system.
<code>ssOAuthentication</code> parameters	
<code>ssotoken</code>	Specifies the single sign-on (SSO) token.



Optional parameter	Description
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.
5. From the Matching SAP Functions table, select one of the SAP Functions and click OK.

## 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 RFC becomes the output parameter of the 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


---

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

---

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 RFC 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 below 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

<b>F i e l d</b>	<b>Description</b>
T	<p>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.</p> <p>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.</p>

Parent topic: [SAP 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/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
```

.....  
.....

### 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
.....
.....
```

## 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: sapjco3.jar, sapjco3.dll (for Windows) or sapjco3.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 (SapEndpoi
ntProjectNode.java:345)
at
com.approuter.studio.connectors.sap.endpoint.SapEndpointProjectNode$3.call (SapEndpoi
ntProjectNode.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 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.verfiyServerConfiguration(SapJCoServerB
uilder.java:403)
at
com.ibm.j2ca.sap.inbound.SapJCoServerBuilder.createServer(SapJCoServerBuilder.java:9
6)
at
com.ibm.j2ca.sap.inbound.SAPEventListenerManager.buildEventListener(SAPEventListene
rManager.java:149)
at
com.ibm.j2ca.sap.inbound.SAPEventListenerManager.startEventListeners(SAPEventListene
rManager.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.j
ava: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.checkSAPInstalled(SAPActivator.java:101)
    at
com.approuter.module.sap.activity.SAPBaseActivity.checkSapSetup(SAPBaseActivity
.java:498)
    at
com.approuter.module.sap.activity.SAPBaseActivity.generateSchemas(SAPBaseActivi
ty.java:172)
    at
com.approuter.module.sap.activity.SapSendRfcData.activate(SapSendRfcData.java:1
12)
    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.checkSAPInstalled(SAPActivator.java:101)
        at
com.approuter.module.sap.activity.SAPBaseActivity.checkSapSetup(SAPBaseActivity
.java:498)
        at
com.approuter.module.sap.activity.SAPBaseActivity.generateSchemas(SAPBaseActivi
ty.java:172)
        at
com.approuter.module.sap.activity.SapSendRfcData.activate(SapSendRfcData.java:1
12)
        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(SAPBaseActivi
ty.java:172)
        at
com.approuter.module.sap.activity.SapSendRfcData.activate(SapSendRfcData.java:1
12)
        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.checkSAPInstalled(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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## ServiceMax activities

---

- [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

---

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.



Option	Description
<b>Authentication</b>	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>○ <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. 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>
<b>Realm/Domain</b>	If you select the <b>Basic</b> authentication option, specify a realm. If you select the <b>NTLM</b> authentication option, specify a domain.
<b>Host name</b>	Specify the host name of the proxy server.
<b>Port</b>	Specify the port number that is required to connect to the proxy server.
<b>Username</b>	Specify the user name that is required to connect to the proxy server.
<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.

Retry fields	Description
Try to connect __ times before failing.	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
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: [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>&lt;i&gt;</i>	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.
Where <i>&lt;i&gt;</i> is the polling interval. The interval can be specified in minutes, hours, or days	By default, the Integration Appliance polls the ServiceMax Server every 5 minutes.
Batch up to <i>&lt;n&gt;</i> objects per orchestration	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.
Where <i>&lt;n&gt;</i> is the number of objects in a batch.	

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:

- If the field that is being retrieved is null, the Integration Appliance sets the `xsi:nil` attribute to true in the result.

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## 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:

- `endDateTime`
- `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 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.

## 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:

- 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.

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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:
  - endDateTime
  - 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 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:

- 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.

## 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 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 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](#).

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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. The schema is defined as follows:

- For fields, the field type matches the SOAP type of the field. The field type is nillable if the SOAP type is nillable.
- 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.
- 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.
- 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.

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 nillable and the operator is (=) or (!=), then the parameter is nillable. 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 nillable 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	<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>

a Set Ex pre ssi on	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 nillable.
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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](#)

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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 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.



- 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

Reserved Characters	Description
"	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.

---

## 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/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

---

1. In the Activities tab, open the ServiceMax 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 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 inputs of the Convert Lead activity.

## 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SerMax\\_Convert\\_Lead\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/SerMax_Convert_Lead_Activity.html)

# 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:
  - 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 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.

## 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](#).

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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.

### 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:

- 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 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:
  - `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](#).

## 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](#)

## 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:

- `CallOptions`
- `EmailHeader`
- `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 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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## 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 Sever.
- [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 (Java™ 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


---

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>o For Siebel 7.5: siebel://&lt;IP_address&gt;:2320/siebel/SSEObjMgr_ENU/sebldevl</li><li>o For Siebel 7.8: siebel://&lt;IP_address&gt;:/Sieb78/SSEObjMgr_enu</li><li>o For Siebel 8: siebel://&lt;IP_address&gt;:2321/SBA_80/SSEObjMgr_enu</li></ul>

<b>Field Name</b>	<b>Description</b>
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 Java™ 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.
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.
	Note: The Connection pool properties need to be configured as per the load (number of concurrent requests) on the endpoint.
Remote endpoint configuration	

Field Name	Description
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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### Feedback | Notices

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Siebel\\_create\\_outactivity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Siebel_create_outactivity.html)

## 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](#)

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## 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:


- 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 Query 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 Query Objects activity.

**Parent topic:** [Siebel activities](#)

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## 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

---

1. In an active orchestration, open the Activities tab and expand the Siebel folder contents.
2. Drag the Execute Business Service activity icon onto the orchestration.
3. When the activity shows in the orchestration, the Siebel Execute Business Service Checklist is displayed.
4. 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.



- 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.
  - 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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## 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		√	Active
EVENT_ID	Data (public)	30	Varchar	√		Active
CONNECTOR_ID	Data (public)	255	Varchar		√	Active
EVENT_TYPE	Data (public)	20	Varchar	√		Active
OBJECT_KEY	Data (public)	255	Varchar	√		Active
OBJECT_NAME	Data (public)	255	Varchar	√		Active
PRIORITY	Data (public)	10	Number		√	Active
STATUS	Data (public)	20	Number	√		Active
XID	Data (public)	255	Varchar	√		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 DTYPE\_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 Text-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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## 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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## 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



<b>Retry Fields</b>	<b>Description</b>
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.
Retry count	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

<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 interval.) Time can be selected in the format days, hours, minutes, or seconds.

<b>Delivery Rules Fields</b>	<b>Description</b>
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 (Java™ 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	siebel.c onmgr.t xtimeou t	Indicates the transaction timeout (in milliseconds). The default value is 600000 = 10 minutes.
	siebel.c onmgr.p oolsize	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.
	siebel.c onmgr.s esstime out	Indicates the transaction timeout (in seconds) on the client side. The default value is 2700 = 45 minutes.
	siebel.c onmgr.r etry	Indicates the number of open session retries. The default value is 3.

Property Type	Property	Description
	siebel.conmgr.jce	Indicates the usage of Java Cryptography Extension. 1 for jce usage and 0 for no usage.
	siebel.conmgr.virtualhosts	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).
Siebel Generated code for JCA/JDB properties	Siebel connection string  siebel.username	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.jdb.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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## 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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## 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.

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
Location	
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.
Login	Description

<b>Field Name</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).
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 &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 SSL_TLSv2.
<b>Connection Timeout - The following Connection field is available for the Remote Server option only.</b>	

Field Name	Description
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>	
Login	Description
Connect via a Proxy Server	Select this check box if the request has to be routed through a proxy server.
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. Note: Do not prefix the user name with the domain.</li> </ul>
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>	

Field Name	Description
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. 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

---

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

---

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:
  - 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 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.

Field or Check Box	Description
<b>Request</b>	
URL (Path name)	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>	
Request Type	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> .



<b>Fi el d or C h ec k B ox</b>	<b>Description</b>
<b>Request</b>	
A p p l i e s T o	The recipient endpoint reference/entity of SAML 2.0 token/assertion.
I s s u e r	The authority responsible for issuing SAML 2.0 token/assertion.
T o k e n T y p e	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

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
httpheaders	Specifies the HTTP header of the response.
assertion	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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/sts\\_get\\_saml\\_20\\_token.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/sts_get_saml_20_token.html)

## 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> .

- When finished, click Test Connection to confirm that you can connect to the SugarCRM system.
- 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

---

- In an active orchestration, open the Activities tab and expand the SugarCRM folder contents.
- Drag the Upsert Object activity icon onto the orchestration. The SugarCRM Upsert Object 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 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 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.
- In the Checklist, click Configure.
- Click Browse to select the object type. The Browse SugarCRM window is displayed.
- 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 *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](#)

## 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 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](#)

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[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

<b>Retry Fields</b>	<b>Description</b>
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.	<p>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.</p> <p>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 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 _____ 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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## 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.

---

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

## 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](#)

## 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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## 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Taleo\\_delete\\_objects\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Taleo_delete_objects_activity.html)

## 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.



Retry Fields	Description
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

- [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:
  - o In the Project Explorer pane, select an existing WSDL file that has already been [uploaded into the project](#).
  - o Select a WSDL file from the file system: Click Add. In the Add dialog box, browse for the WSDL file and click Add.
  - o 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:**

- o The WSDL file you select must be compatible with the WSDL 1.1 and WS-I Basic Profile 1.1 specifications.
- o 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](#).

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">
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/
  ...</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/Field 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.
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. Note: If the Remote Server is Cast Iron Live web service provider, then use the IBM ID credential for basic authentication.</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. 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>
Realm/Domain	<ul style="list-style-type: none"> <li>◦ 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>◦ 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>

Option/Field Name	Description
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.

- 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\_TLSv2.


#### 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 WSDL 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.



<p>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.</p>	<p>Yes , up date occ urs</p>	<p>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>.</p>
<p>The name of an operation changes in the WSDL and the orchestration is starting that operation in an <b>Invoke Service</b> activity.</p>	<p>Yes , up date occ urs</p>	<p>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.</p>
<p>The name of one of the operation changes in the WSDL but the orchestration is not starting that operation in any <b>Invoke Service</b> activities.</p>	<p>Yes , up date occ urs</p>	<p>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>
<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>	<p>Yes , up date occ urs</p>	<p>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>

<p>Change the type of a <code>&lt;part&gt;</code> element in a <code>&lt;message&gt;</code> 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>	<p>Yes, updates occurs</p>	<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>
<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>	<p>Yes, updates occurs</p>	<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:

**Parent topic:** [Web Services Activities](#)

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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:
  - 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.
  - 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.
  - 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.
  - 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:
  - 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.
  - 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.
  - Click Close.

**Parent topic:** [Updating a Changed WSDL](#)

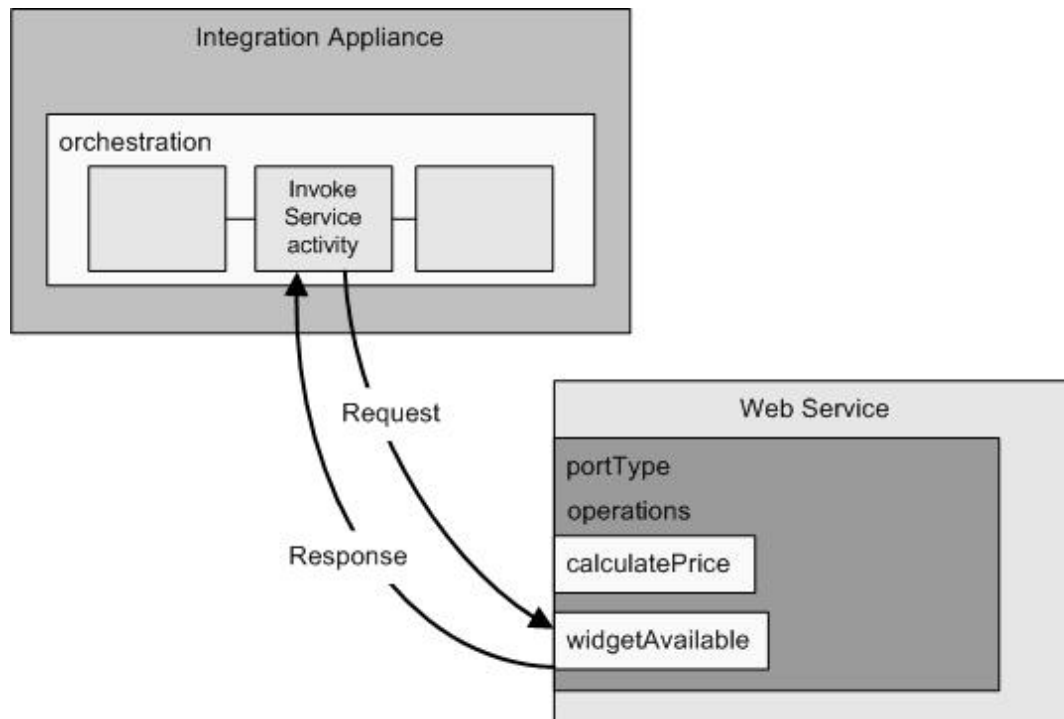
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## Web Services Invoke Service Activity

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:
  - o 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.
  - o 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.
  - o 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	
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 Web Service.
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 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 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 Endp oint does not respo nd to a reque st.	<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 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>.</p>

**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:

Input Parameter Name/Node	Description	Overrides the Setting in Task?
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.

Parent topic: [Web Services Invoke Service Activity](#)

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## Mapping the outputs of the activity

---

Map the output of the **Invoke 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.


<b>Nodes of the httpheaders Output Parameter</b>	<b>Description</b>
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.

2. 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:

1. Open an orchestration with Web Services Provide Service Starter Activity. A graphical representation of the orchestration is displayed in the Studio Workspace.


2. 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/WS\\_invoke\\_service.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/WS_invoke_service.html)

# 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

---

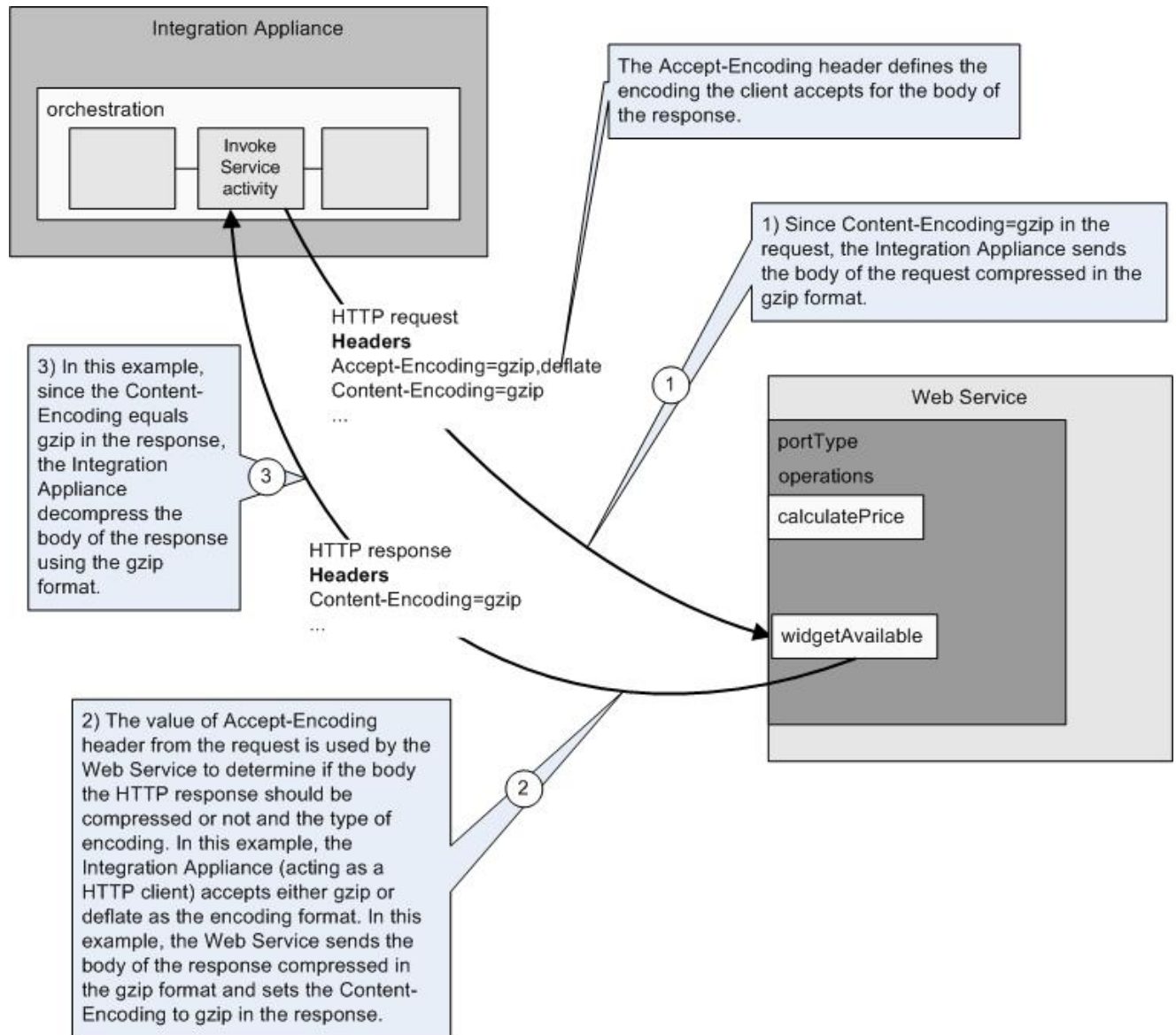
The Integration Appliance determines whether or not the HTTP Endpoint supports compression when the Integration Appliance sends the first HTTP request in the compressed format to the HTTP Endpoint (the Web Service), if the Web Service returns an error code indicating that Web Service does not support 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.

Parent topic: [Web Services Activities](#)

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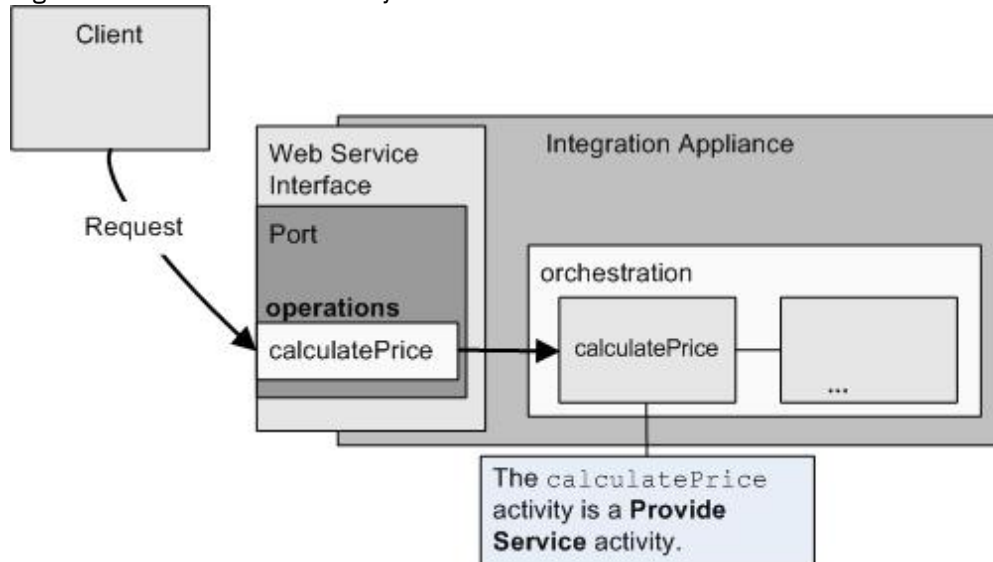
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/WS\\_Compression\\_Decompression\\_wit\\_h\\_the\\_WS\\_Invoke\\_Service\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/WS_Compression_Decompression_wit_h_the_WS_Invoke_Service_Activity.html)

## 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 [tFigure 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:
  - o 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.
  - 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 displays.
  - o 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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## 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	
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	
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. (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. (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	
Fault Name	Specifies user-defined fault name for the activity.
Fault	Click Browse to display the schema and select the element for which the fault is thrown.

Element	
Options	
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/other Headers/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/other Headers/headerItem/name	Specifies the name of the HTTP parameter.
httpheaders/other Headers/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.

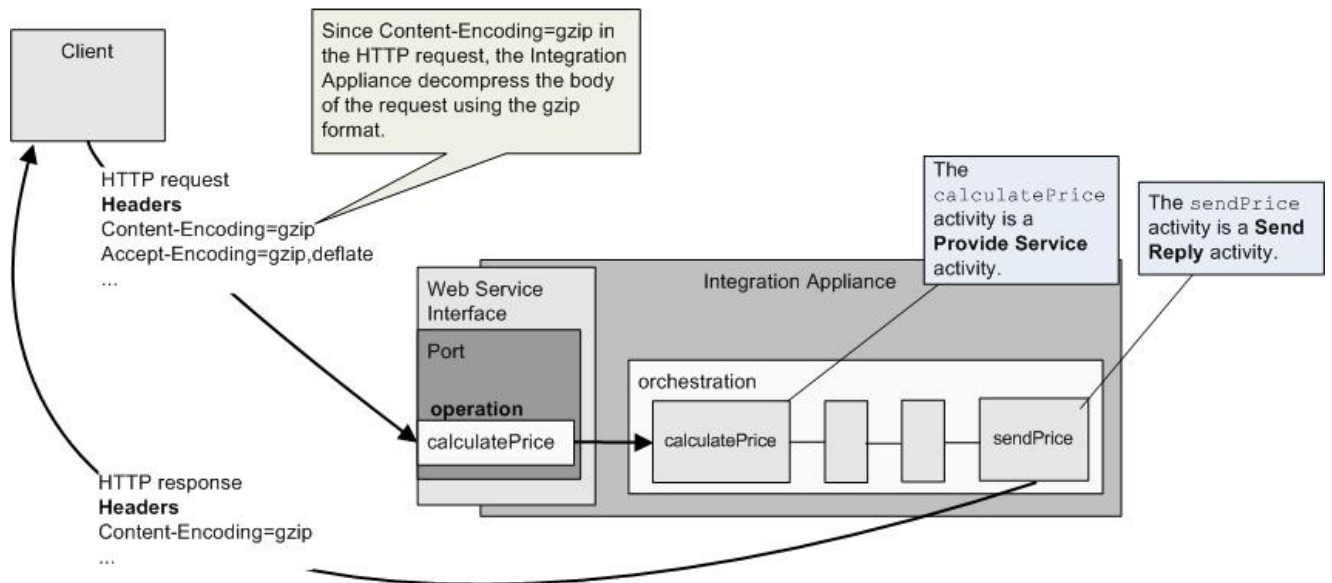
These conditions affect the decompression run time behavior of the **Provide Service** activity and are described in the following sections and in the table provided in the [Run time Decompression Behavior](#) section.

### 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 string	The Integration Appliance sends the 415 (Unsupported Media Type) Response Code.

	beside s gzip or identit y	
cleared	value is not signifi cant	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.

<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 Web Service</b>
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.

<b>Use Compression/ Decompression Check Box (Activity Level)</b>	<b>Content-Encoding Value in the HTTP Response (Message Level)</b>	<b>Endpoint Supports Compress ion?</b>	<b>Integration Appliance Decompression Run Time 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	yes	The Integration Appliance logs an error that the response data was received in an unsolicited

	header		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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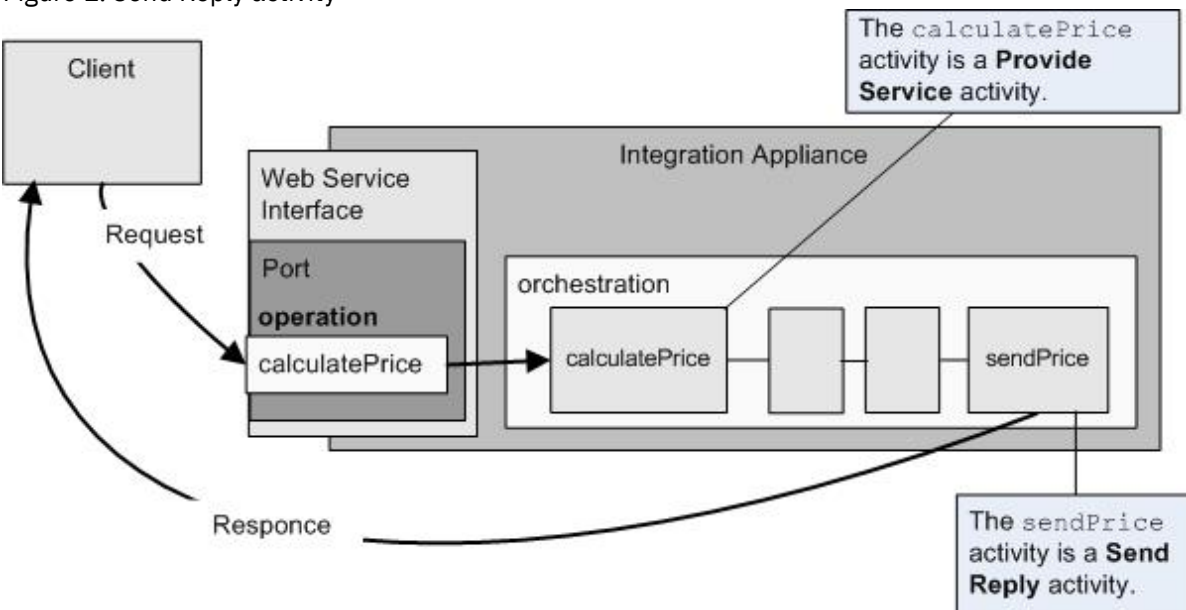
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/WS\\_decompression\\_with\\_the\\_web\\_services\\_provide\\_service\\_activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/WS_decompression_with_the_web_services_provide_service_activity.html)

# 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.

<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, 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](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/WS\\_Send\\_Reply\\_with\\_Fault\\_Activity.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/WS_Send_Reply_with_Fault_Activity.html)

## 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/WS\\_Fault\\_Activity\\_Map\\_Inputs.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/WS_Fault_Activity_Map_Inputs.html)

## 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.

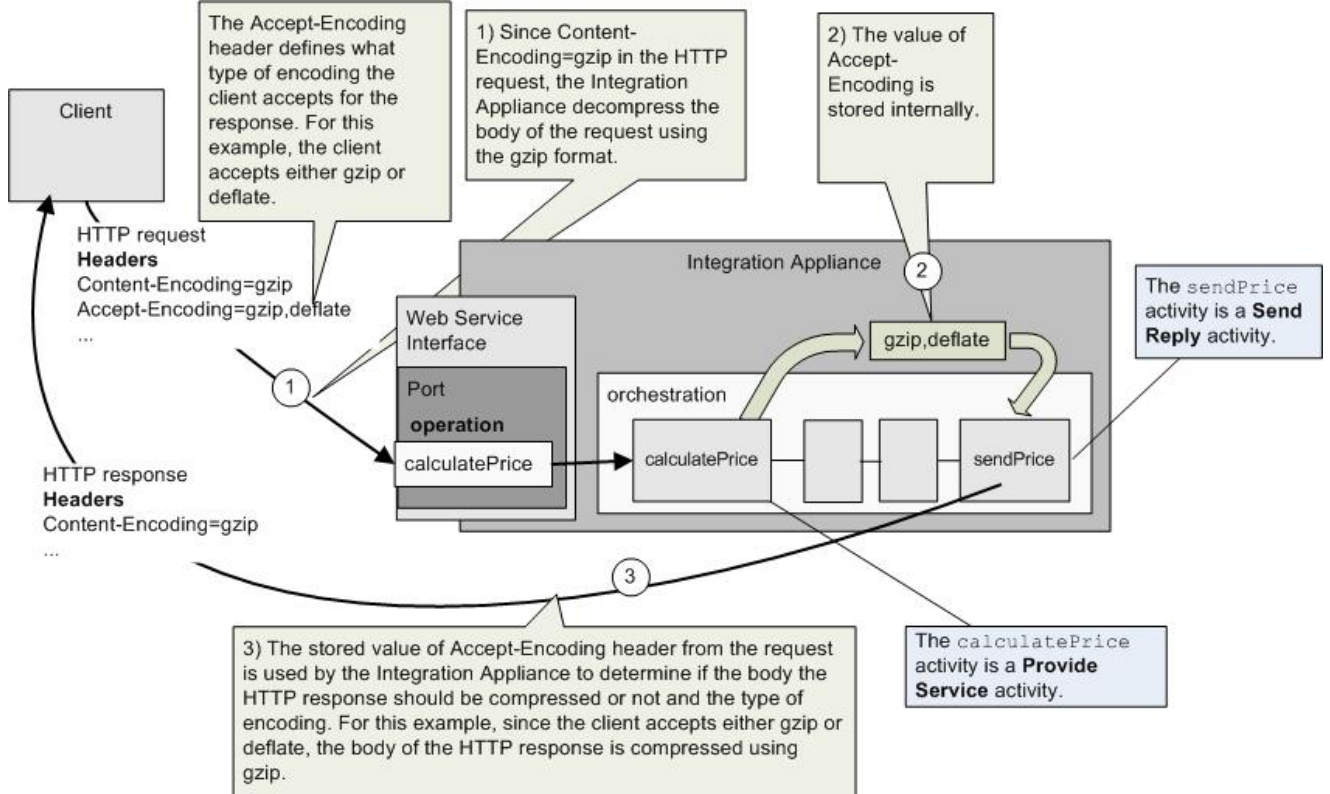
These conditions affect the compression run time behavior of the Send Reply activity are described in the following sections and in the table provided in the [Run time Compression Behavior](#) section.

### 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.
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.
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

---

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

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.
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	


Field Name	Description
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

---



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.

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## Specifying the retry options for Workday activity

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	
1) Wait --- secon d(s) betwe en 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 conne ct ___ times before failing .	<p>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.</p> <p>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.</p> <p>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.</p>
3) Time out after --- secon	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

ds when the Endpo int does not respo nd to a reque st.	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> .
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**Parent topic:** [Workday Activities](#)

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## Zuora Activities


---

- [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

---

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 <code>https://www.zuora.com/apps/services/a/41.0</code> is displayed.
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


---

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


---

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.

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## 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](#)

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## 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](#)

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## 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.

<b>Retry Fields</b>	<b>Description</b>
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.
<b>Activity Timeout</b>	
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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## 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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# 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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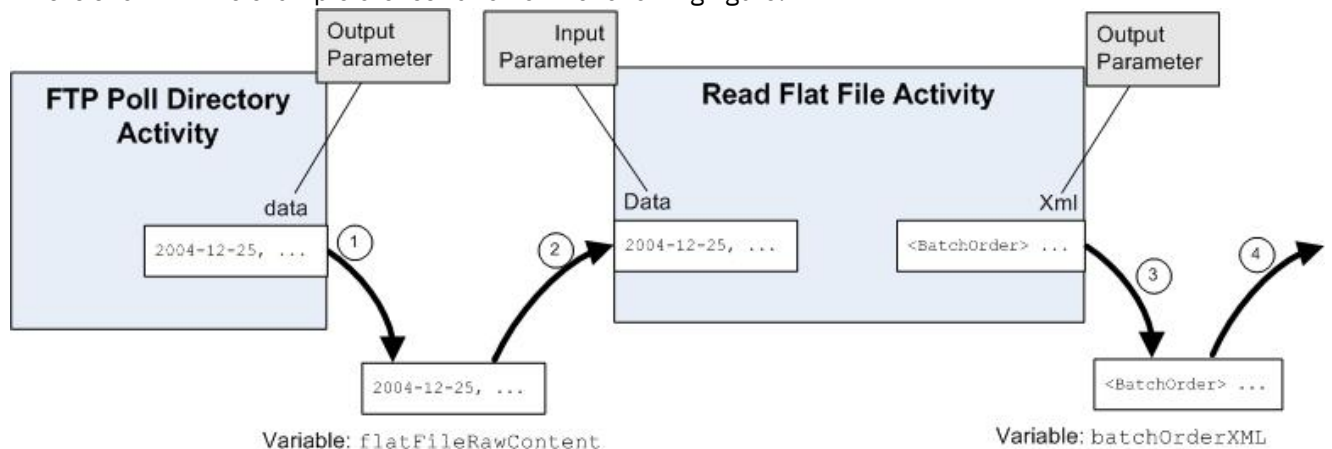
[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc\\_variables.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/toc_variables.html)

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## 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).

JobInfo Node Name	Data Type	Description
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 —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.
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](#)

---

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

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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](#)

---

## Feedback | Notices

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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](#)

## 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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## 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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## Primitive Data Types

---

The following table lists primitive data types that can be used when creating a variable:

Primitive Data Type	Description
base64 binary	Base64-encoded arbitrary binary data The <code>·value space·</code> of <code>base64Binary</code> is the set of finite-length sequences of binary octets. For <code>base64Binary</code> data the entire binary stream is encoded using the Base64 Alphabet in [RFC 2045].
anyType	A concrete <code>ur-Type</code> , 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 /qname	XML qualified names.
int	<code>int</code> is derived from <code>long</code> by setting the value of <code>·maxInclusive·</code> to be 2147483647 and <code>·minInclusive·</code> to be -2147483648
string	The <code>string</code> 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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## 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.

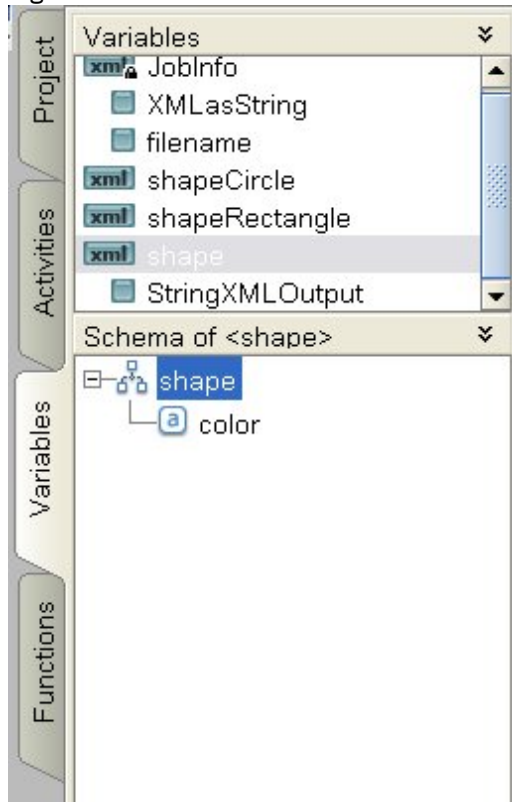
To select a substitution type for a variable:

## 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.

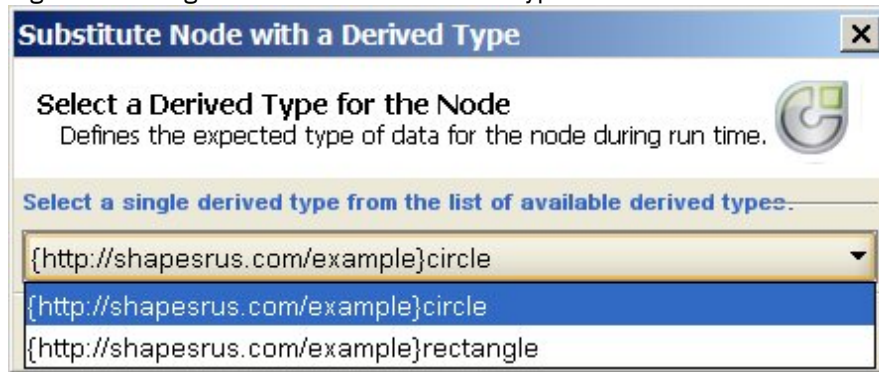


Note that the child elements of the derived types are not listed in the "Schema of" pane. In this example, the child element of circle which is named diameter is not listed, nor are the child elements of rectangle which are named width and length.

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](#):

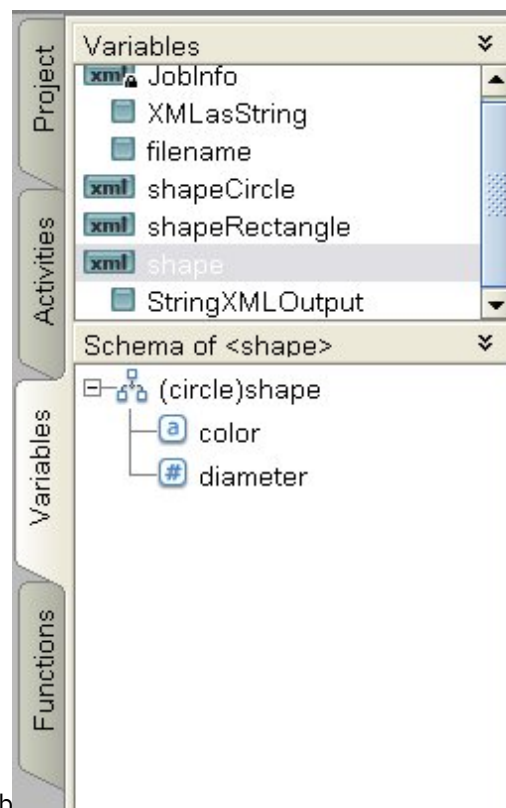



Figure 3. Variables tab

## 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 Unsubstitute Node option from the menu. An Unsubstitute 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

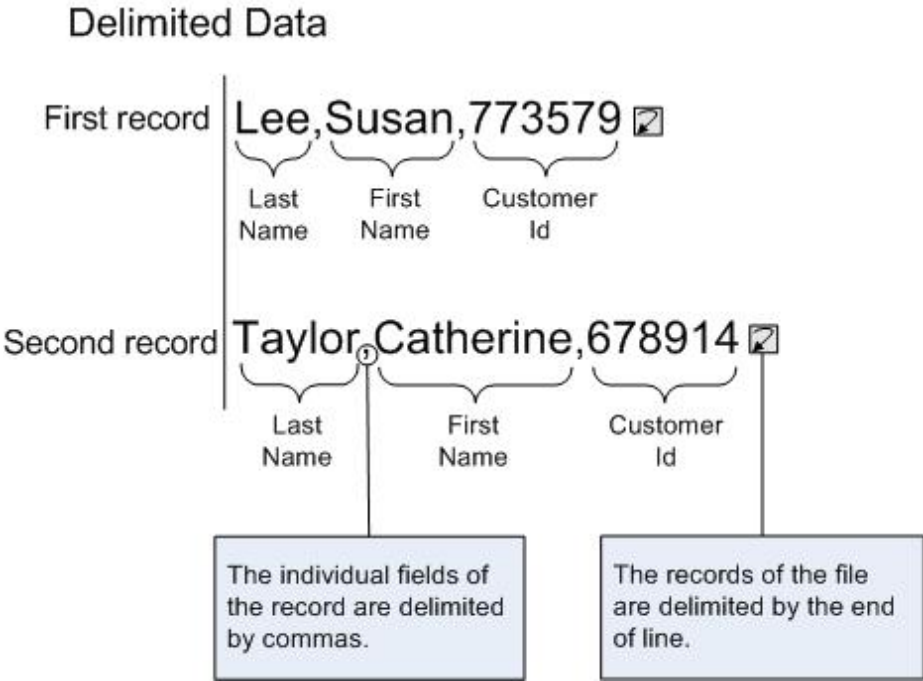
A Flat File Schema is metadata that describes the format and structure of Flat File data processed by the Integration Appliance. When you create a Flat File Schema, a corresponding internal XML Schema-based representation of the metadata is also generated.

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.

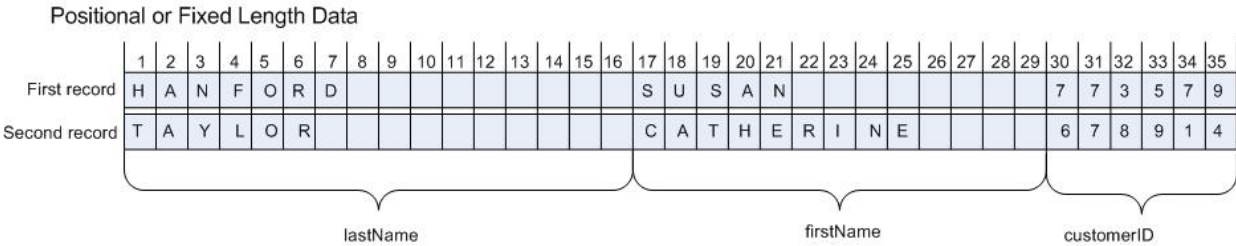
Use the Flat File Schema Editor to create Flat File Schemas to describe the following types of data:

- **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:



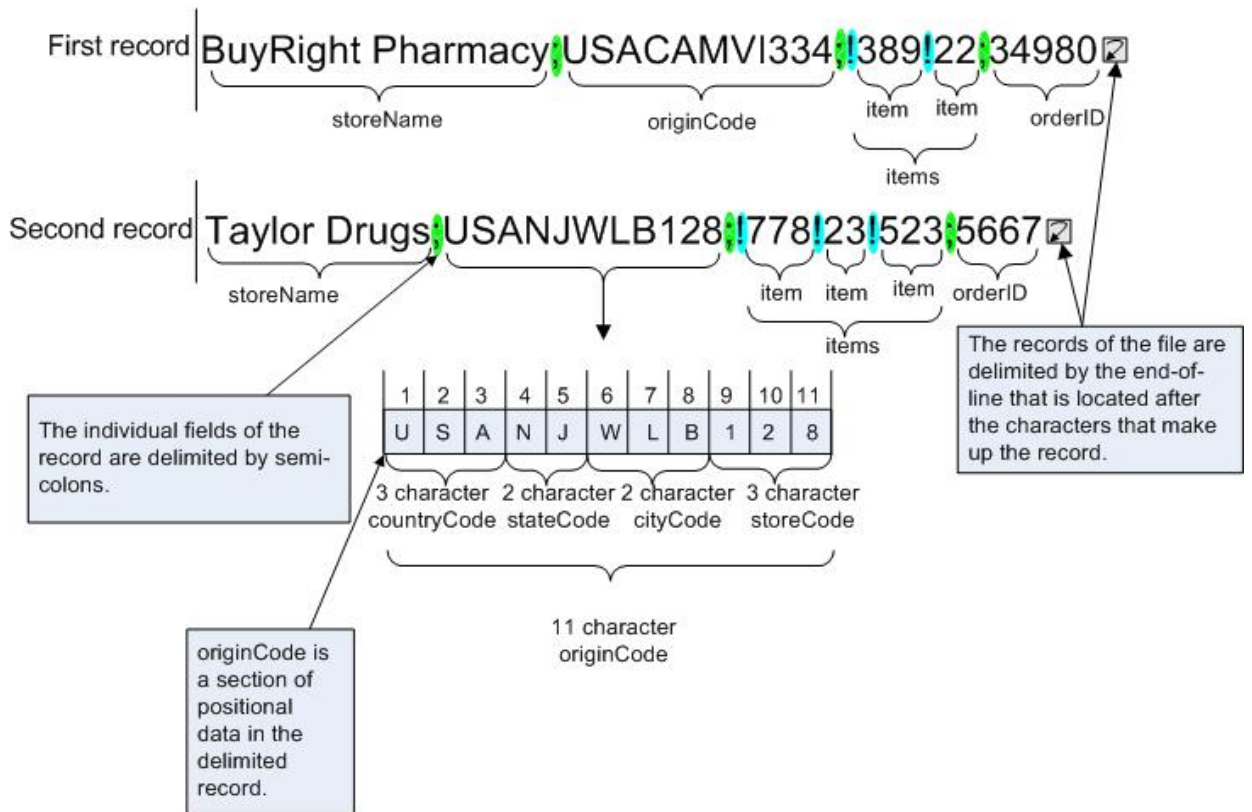
For an example Flat File Schema that parses delimited fields and contains repeating records, see "Developing the BookOrder Project" section of the *Getting Started Guide*.

- **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:



- [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](#)

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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.

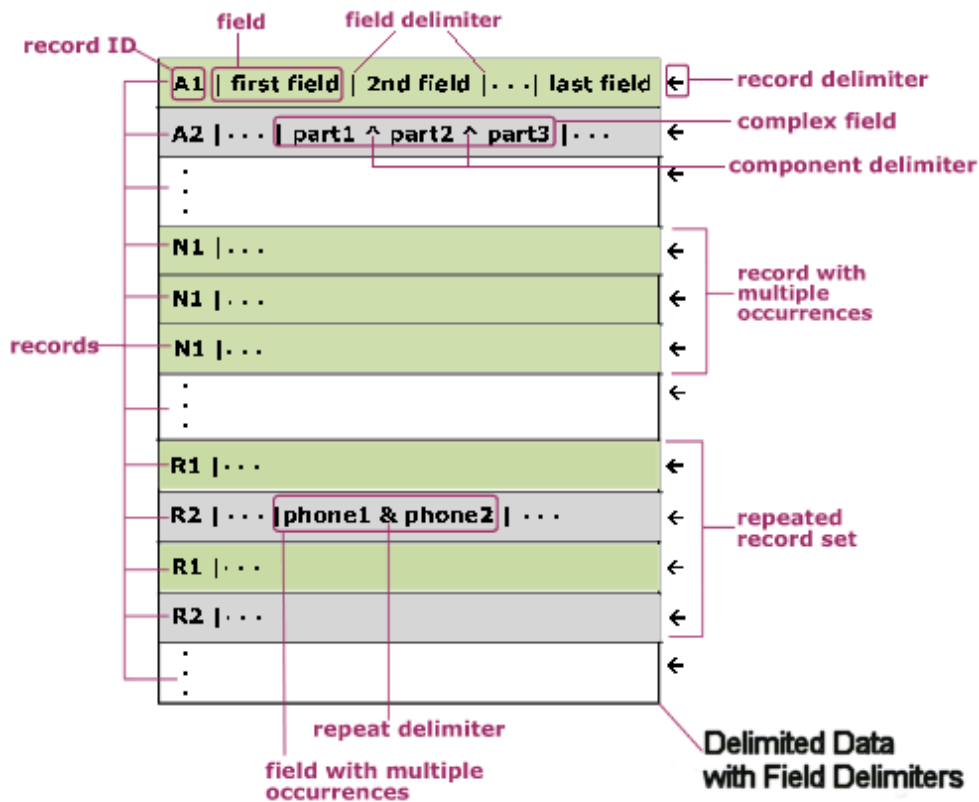


## Delimited Data



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
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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_About\\_Delimited\\_Data.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_About_Delimited_Data.html)

## 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

	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

lastName
firstName
customerID

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

<pre>Susan   Jane     Susie   Taylor   091 CatherineErin          Halden   012</pre>	<pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;NamePerson&gt;   &lt;Names&gt;     &lt;firstName&gt;Susan   &lt;/firstName&gt;     &lt;middleName&gt;Jane   &lt;/middleName&gt;     &lt;nickname&gt;Susie   &lt;/nickname&gt;     &lt;lastName&gt;Taylor   &lt;/lastName&gt;     &lt;age&gt;091&lt;/age&gt;   &lt;/Names&gt;   &lt;Names&gt;     &lt;firstName&gt;Catherine&lt;/firstName&gt;     &lt;middleName&gt;Erin   &lt;/middleName&gt;     &lt;nickname/&gt;     &lt;lastName&gt;Halden   &lt;/lastName&gt;     &lt;age&gt;012&lt;/age&gt;   &lt;/Names&gt; &lt;/NamePerson&gt;</pre>
--	---

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 repetitions 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			Halden	012


```
<?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>
```

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 added 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.

- 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.

First record	BuyRight Pharmacy;USACAMVI334;!389!22;34980;
Second record	Taylor Drugs;USANJWLB128;!778!23!523;5667;

The records of the file are delimited by the end-of-line that is located *in between* the characters that make up the record.

- Configure the root node called Order to parse the child repeating records using the following criteria:
  - Separate the data into records using a delimiter.
  - Expect the document to end with an EOS (End Of Stream) because the last record does not end with a delimiter.
  - Use the end-of-line delimiter to delimit any child records.
  - Expect the delimiter in between the data.
  - Expect repeating child records.
  - 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

**Basic Properties**

Name: Order    Type: None    [Reset]

Structure: Delimited

Write Line Ends as CRLF

Document Ends with EOS (end of stream)

**Delimiters**

Child:  Line End     Dynamic Position    [1]    Write Default: [ ]

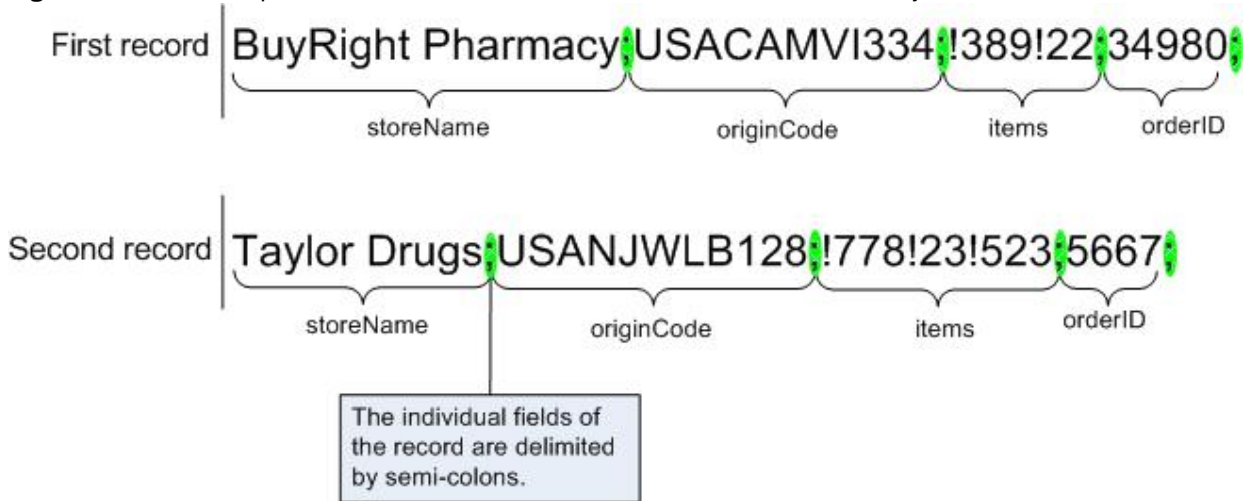
Include Trailing Delimiters for Empty Data

Child Delimiter Position: In between

Repeat:  Line End     Dynamic Position    [1]    Write Default: [ ]

- 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.



6. Configure the purchaseOrder node to parse these fields as described by following criteria:
  - o The purchaseOrder node can have one or more occurrences.
  - o Parse the data of the record into child fields using a delimiter.
  - o Use the semicolon as the delimiter between the data.
  - o 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.

**Basic Properties**

Name: purchaseOrder Type: None

Structure: Delimited

Record Identifier: Record ID Starting Position: 0

Occurrences: Minimum: 1 Maximum: Unbounded

**Delimiters**

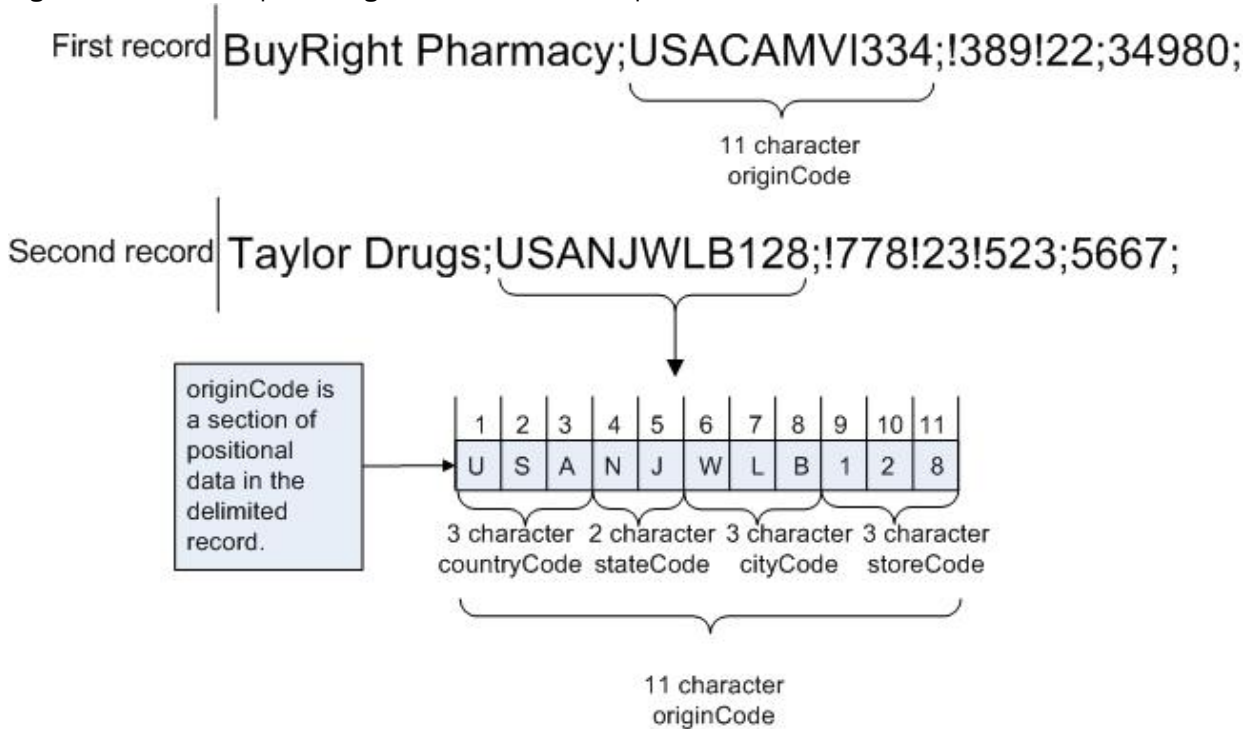
Child: Character ;

Child Delimiter Position: After

7. 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.
8. In the Bulk Add dialog box, add all the child records and fields of the purchaseOrder node:
  - o Click Add and change field1 to storeName. Leave the Node Type set to Field.
  - o Click Add and change field2 to originCode. Change the Node Type to Record.
  - o Click Add and change field3 to items. Change the Node Type to Record.
  - o Click Add and change field4 to orderID. Leave the Node Type set to Field.
  - o Click OK.
9. 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:  Field Length:

- o **stateCode** -

**Positional Properties**

Field Offset:  Field Length:

- o **cityCode** -

**Positional Properties**

Field Offset:  Field Length:

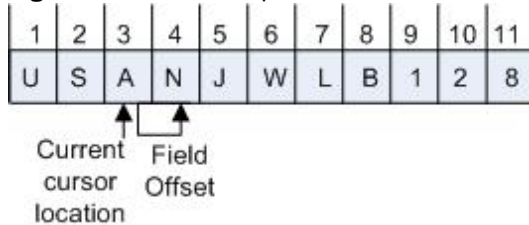
- o **storeCode** -

### Positional Properties

Field Offset:  Field Length:

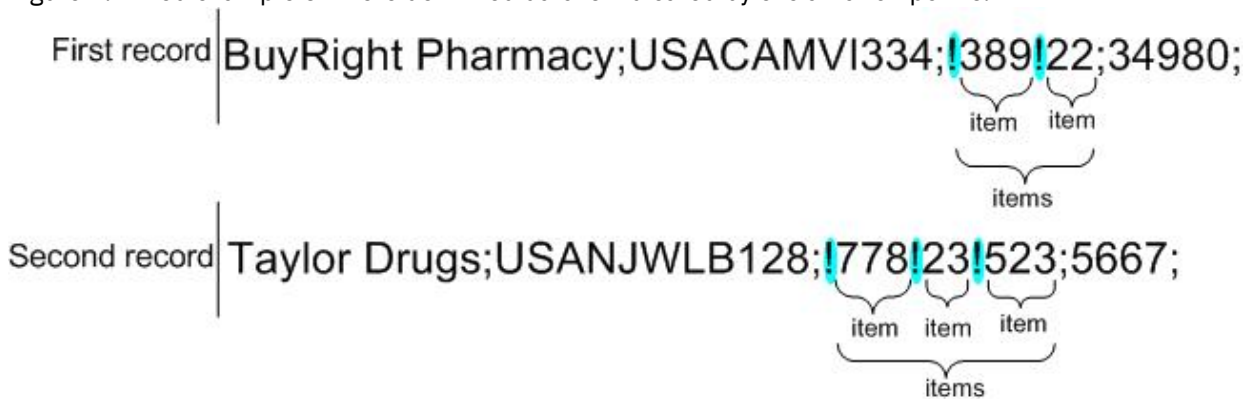
The Field Offset is calibrated from the current character location as the originCode string is being processed and not from the beginning of the originCode string for each field. In this example, the countryCode is processed and the first three characters of the originString are assigned to the countryCode. 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](#):

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:
- Separate the data into fields using a delimiter.
  - Use exclamation points as delimiters to delimit any child fields.
  - Expect the delimiter before the data.
  - Expect one or more repeating child fields.
  - 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.

**Basic Properties**

Name: items Type: None [Reset]

Structure: Delimited

Record Identifier: Record ID Starting Position: 0

Occurrences: Minimum: 1 Maximum: Range: 1

**Delimiters**

Child:  Character |  Line End  Dynamic Position 1 Write Default: ...

Include Trailing Delimiters for Empty Data

Child Delimiter Position: Before

Repeat:  Character |  Line End  Dynamic Position 1 Write Default: ...

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.

**Basic Properties**

Name: item Type: None [Reset]

Type: string

Occurrences:  Optional-Field and delimiter (if applies) are omitted. Must be last field.

Repeat: Minimum: 1 Maximum: Unbounded Range: 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:

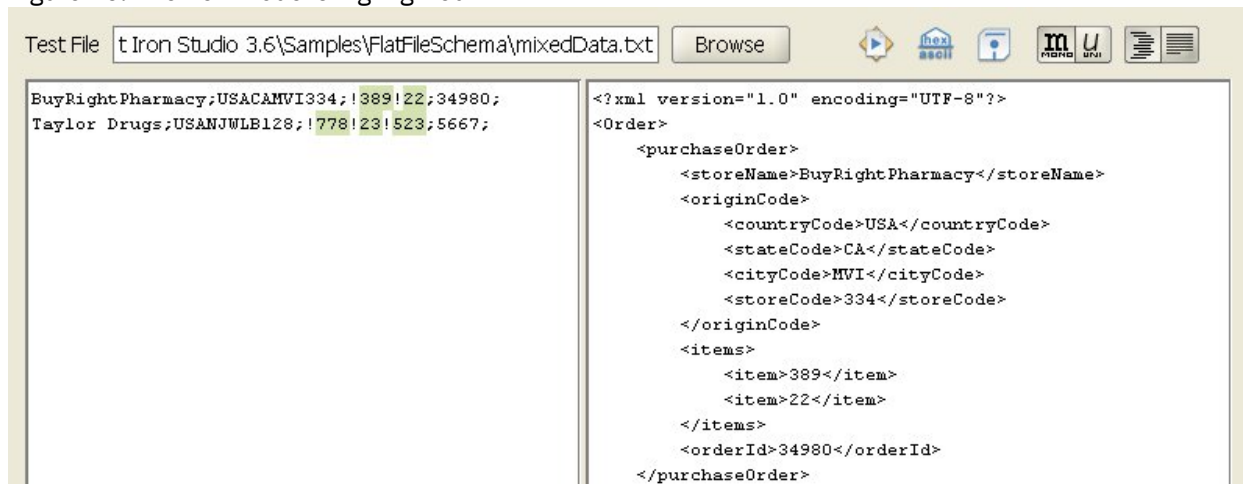
```
<?xml version="1.0" encoding="UTF-8"?>
<Order>
  <purchaseOrder>
    <storeName>BuyRight Pharmacy</storeName>
    <originCode>
      <countryCode>USA</countryCode>
      <stateCode>CA</stateCode>
      <cityCode>MVI</cityCode>
      <storeCode>334</storeCode>
    </originCode>
    <items>
      <item>389</item>
      <item>22</item>
    </items>
    <orderId>34980</orderId>
  </purchaseOrder>
</Order>
```

```

    </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



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.

**Parent topic:** [Flat File Schemas](#)

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## Creating a flat file schema

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## About this task

---







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:
  - In the Project tab, right-click the Flat File Schemas folder and from the list select New Flat File Schema.
  - 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. 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:
  - [Add a Record Type](#) to define common record properties or content.
  - [Add a Group Type](#) to define common group properties or content.
  - [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:
  - [Add a Record](#) to define the major components of the message or for fields with complex structure.
  - [Add a Group](#) to define a set of records or groups that repeat as a set.
  - [Add a Field](#) to define the data within each record.
  - [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	

Parent topic: [Flat File Schemas](#)

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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:
  - o Enter the path and file name for the input data file into the Test File field.
  - o 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:


- o Display just the text.
- o 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:
  - o If the incoming data is Flat File data, the resulting data is an XML data.
  - o 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 select before saving the file, the carriage returns and spaces using 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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 Last updated: Wednesday, 15 June 2016

## 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 to 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. 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 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>
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.

Property	Definition
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

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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
--------	------------



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>
Line End	<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>

Option	Definition
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 is 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>

Option	Definition
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.</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. 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
----------	------------

Position	Definition
After	<p>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: <code>field1,field2,field3,</code></p> <p>After is the most common position for record delimiters.</p>
Before	<p>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>.</p>
In between	<p>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:</p> <p><code>field1,field2,field3</code></p>

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
--------	--------

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 /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>
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). 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 is 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>

Header	Header
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.</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. 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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 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/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> - text in the specified encoding</li> <li>• <b>boolean</b> - <i>true</i> or <i>false</i></li> <li>• <b>integer</b> - any whole number</li> <li>• <b>numeric</b>- any decimal number</li> </ul>
Occurs 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.

Property	Description
Repeat Maximum	<p>Controls repetitions of this single field. Select one of the following options:</p> <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> <p>Note: Multiple occurrences are only allowed when the parent node has specified a repeat delimiter.</p>

## Padding and Trimming

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
Padding/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 <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. 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>

Property	Description
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>
	<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.</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. 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 <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. 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, how is the following record parsed when no escape 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 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> <pre>135:Caving/: What You Really Need to Know:10</pre> <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>

Property	Description
Dynamic Position	<p>Specifies the character position, starting from 1, where the escape character is defined in the first record. 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> <pre>135:Caving: What You Really Need to Know:10</pre> <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 a Dynamic Position of 11 and add a backslash character before the colon as shown in the following record:</p> <pre>135:Caving/: What You Really Need to Know:10</pre> <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 &lt;title&gt;Caving: What You Really Need to Know&lt;/title&gt;. XML element, when converting it to Flat File data, specify a backslash in the Write Default field. The run-time 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>

Property	Description
	<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 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>
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> <pre>135:Caving: What You Really Need to Know:10</pre> <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> <pre>135:"Caving: What You Really Need to Know":10</pre> <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>

Property	Description
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 <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. 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 encapsulate the data found in the <code>&lt;title&gt;Caving: What You Really Need to Know&lt;/title&gt;</code> 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> <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>

## 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 Length	Specifies the length of the data for this field.

Parent topic: [Flat File Schemas](#)

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



## Adding Records or a Record Type

---

### 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 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


---

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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### Feedback | Notices

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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

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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

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The Basic Properties of a record are defined in the following table:

<b>Property</b>	<b>Description</b>
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.
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 <a href="#">Specifying Optional Fields and Records</a> .
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
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>
Line End	<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>
Dynamic	<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>

<b>O p t i o n</b>	<b>Definition</b>
W r i t e D e f a u l t	<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. 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 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:

<b>Position</b>	<b>Definition</b>
After	<p>Specifies that the child delimiter marks the end of a child, including the last child in the data.</p> <p>After is the most common position for record delimiters.</p>
Before	<p>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.</p>
In between	<p>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.</p>

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:


<b>P o s i t i o n</b>	<b>Definition</b>
<b>C h a r a c t e r</b>	<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 /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>
<b>L i n e E n d</b>	<p>Specifies that the repeat 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 CRLFproperty.</p>
<b>D y n a m i c P o s i t i o n</b>	<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 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 s i t i o n</b>	<b>Definition</b>
W r i t e D e f a u l 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. 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>

**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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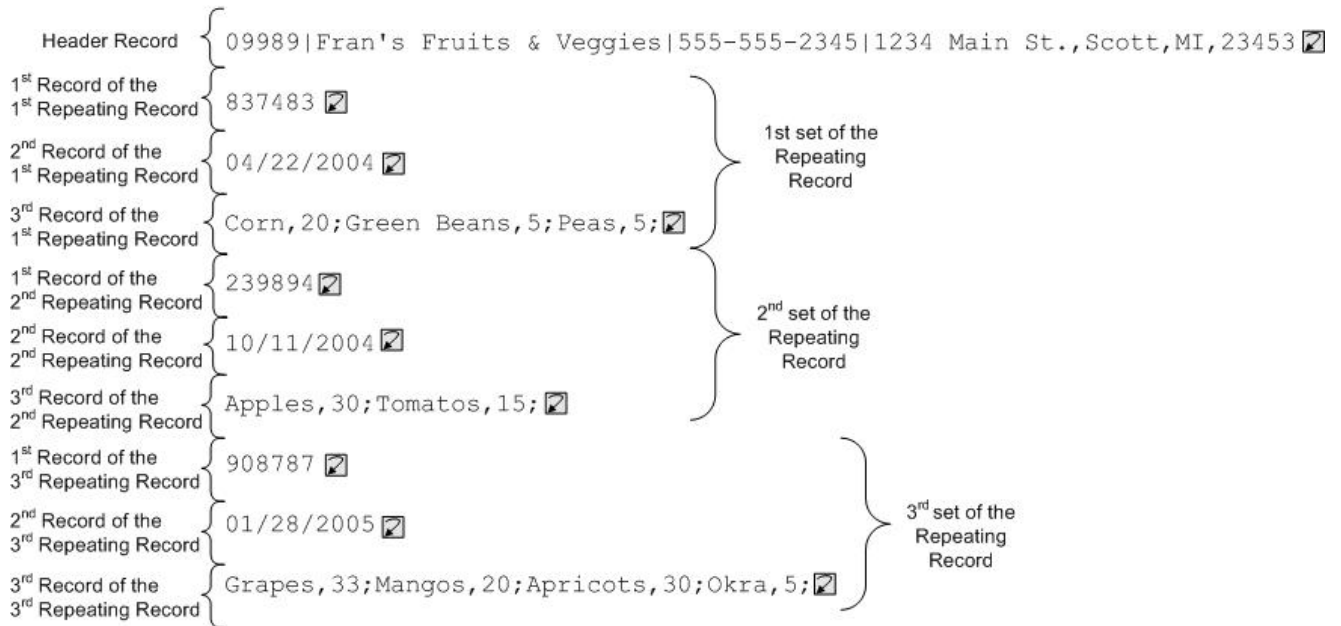
### About this task

---

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. 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](#)

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## 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> .

Field	Description
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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## Group Example

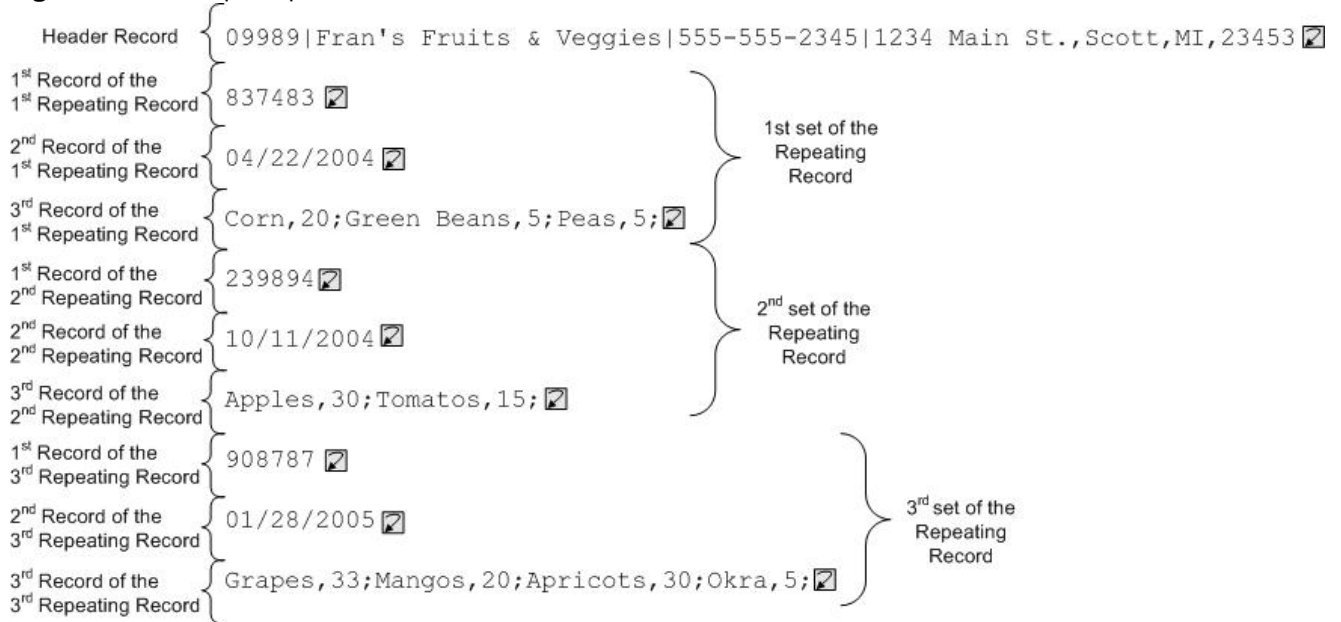
---

### 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:
 

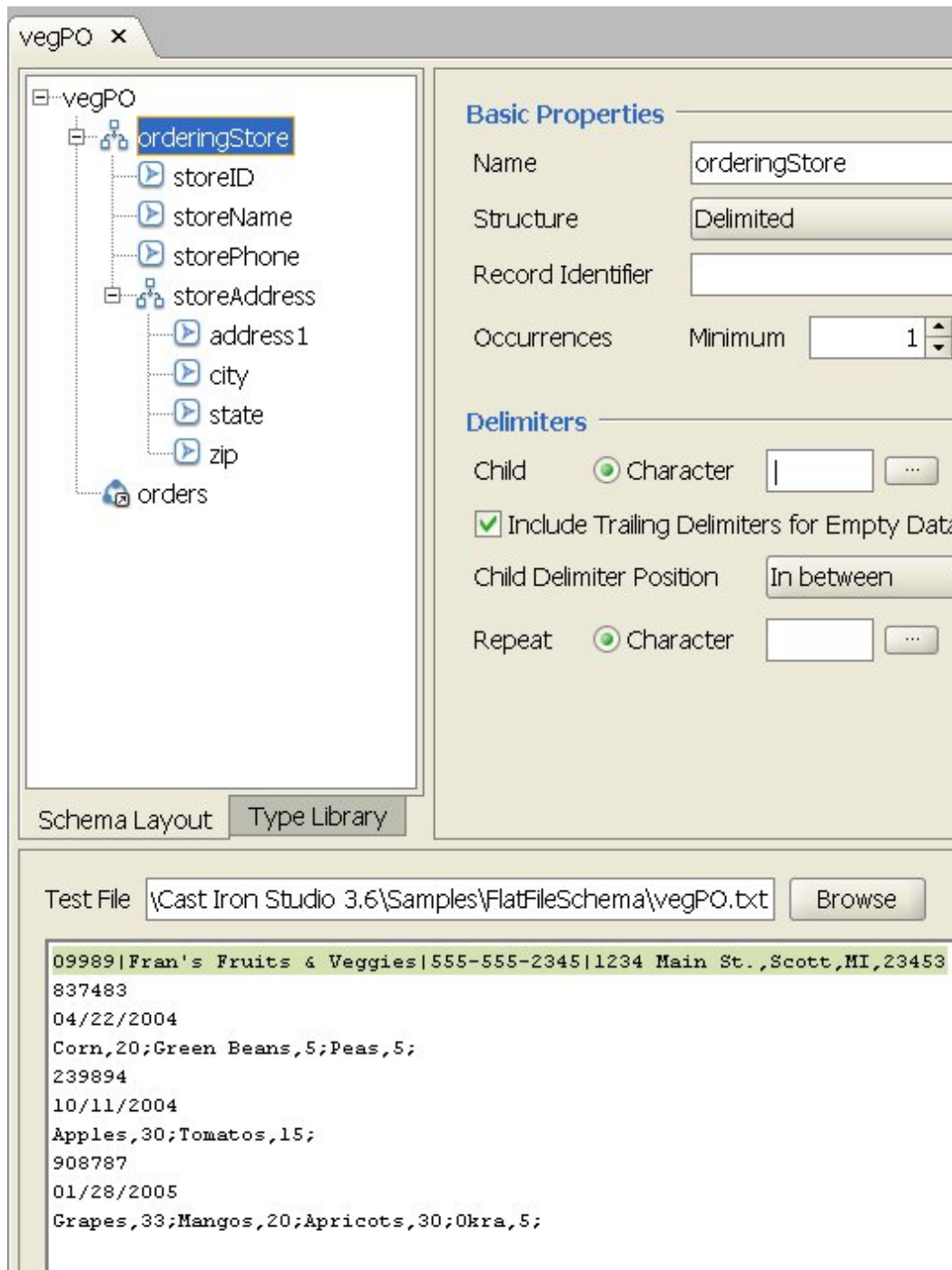
```
C:\Documents and Settings\myLogin\My Documents
```

 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.

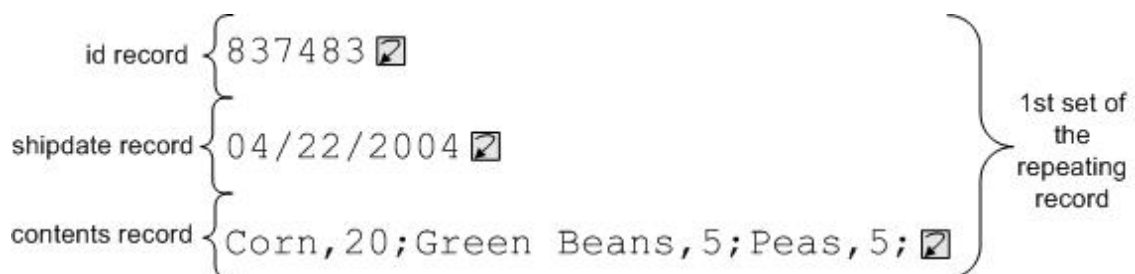
4. Test the vegPO Flat File Schema:
  - a. In the test pane, click Browse. The Open Sample Test Data File dialog box opens.
  - b. Browse for the vegPO.txt file that contains the input data. If you accepted the defaults during the installation of Studio, this file is located in the following directory:

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 () 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:



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:



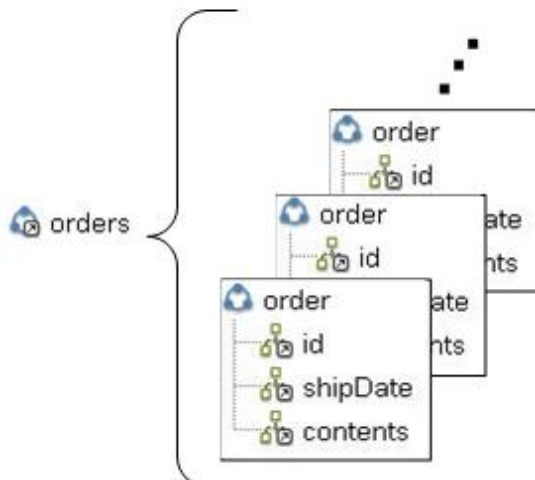
The following icon represents a record that is based on a record type:



The orders group with the order group type define a set of repeating records of different records because of the following characteristics:

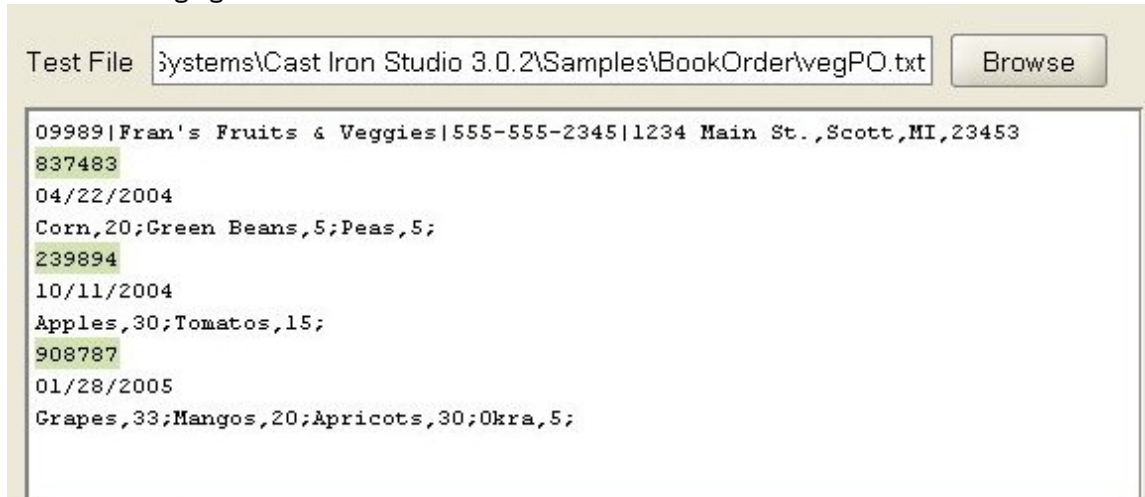
- o There can be one to many instances of the orders group.
- o The order group type contains three records of different types.
- o The orders group is based on or inherits from the order group type.

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:

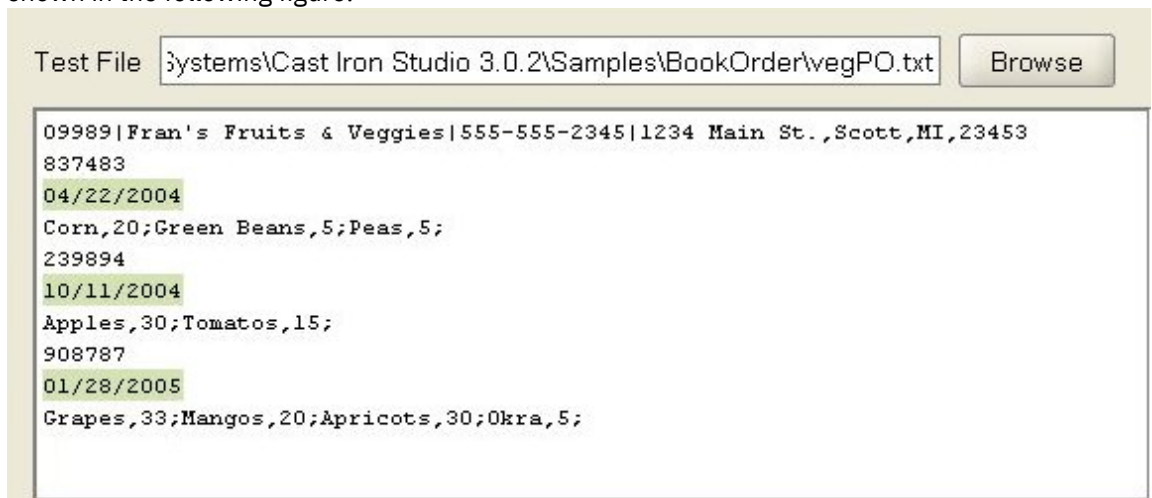
- o In the Basic Properties pane, the Type of the id record is equal to the record type named orderID. This setting means that the id record is based on the orderID record type.
- o In the left subpane of the test pane, the first line of each repeating record is highlighted as shown in the following figure:



This highlighting indicates that the first line of each repeating record is assigned to the id record.

10. In the Type Library tab, click the shipdate 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 shipdate record is equal to the record type named shippingDate. This setting means that the shipdate record is based on the shippingDate record type.
- o 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.
- o In the left subpane of the test pane, the second line of each repeating record is highlighted as shown in the following figure:



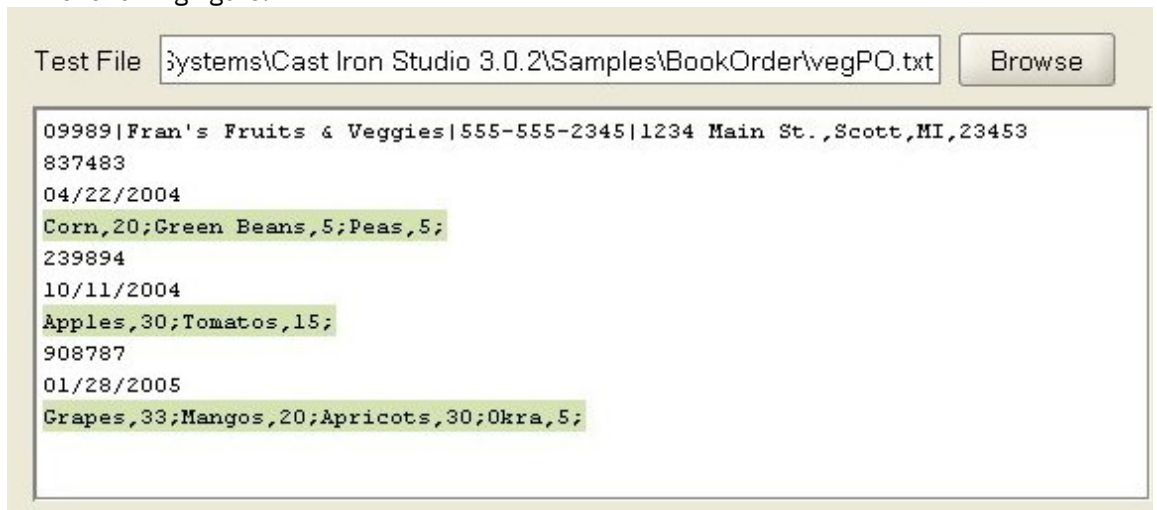
This highlighting indicates that the second line of each repeating record is assigned to the shipDate record. The shipDate record contains three positional child fields (month, day, and year) that are inherited from the shippingDate record type.

11. 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:



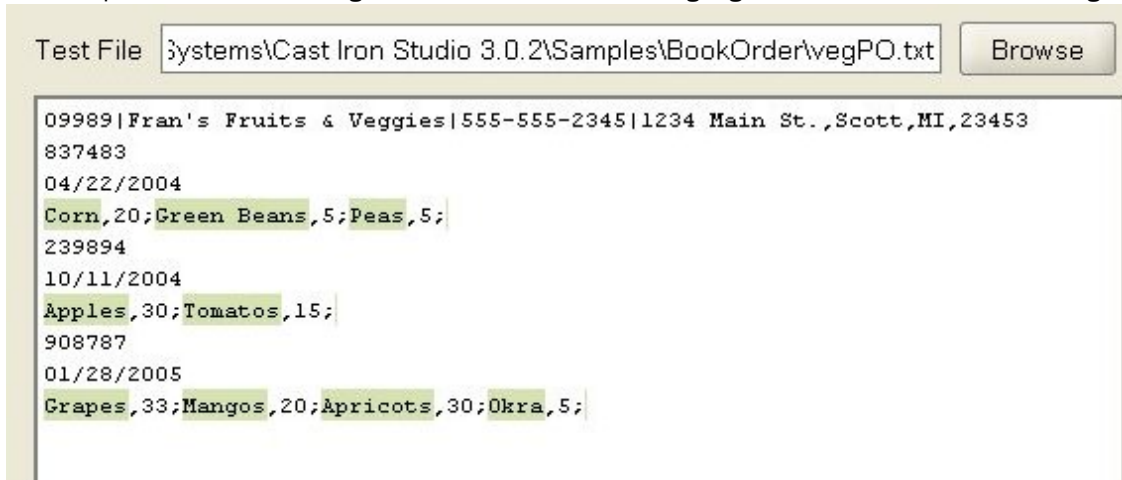


12. In the Type Library, click the contents record node of the order group type. Note the following graphical changes in the panes:
  - o In the Basic Properties pane, the Type of the contents record is equal to the record type named orderContent. This setting means that the contents record is based on the orderContent record type.
  - o In the left subpane of the test pane, the third line of each repeating record is highlighted as shown in the following figure:



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:






**Parent topic:** [Flat File Schemas](#)

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## 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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## 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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# Move nodes

---

## About this task

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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

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## 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


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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:
  - o Click Up to move a child up the list.
  - o Click Down to move a child down the list.
  - o 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:
  - o [Edit the field properties](#)
  - o [Edit the record properties](#)
  - o [Edit group properties](#)

**Parent topic:** [Flat File Schemas](#)

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## Valid Node Names

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	
	space	

Invalid Characters	Description
:	colon
~	tilde
/	forward slash
\	backslash
;	semicolon
?	question mark
\$	dollar sign
&	ampersand
%	percent sign
@	at sign
^	hat sign
=	equals sign
*	asterisk
+	plus sign
()	any parentheses
	pipe
' " `	any quotation marks
{ } [ ] > <	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

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### About this task

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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	



Field	Description
Host Name	Specifies the IP address or the workstation name that contains the SAP system.
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	
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.


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:
  - 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.
  - 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

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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.


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

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

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_About\\_Maps.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_About_Maps.html)

## 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.

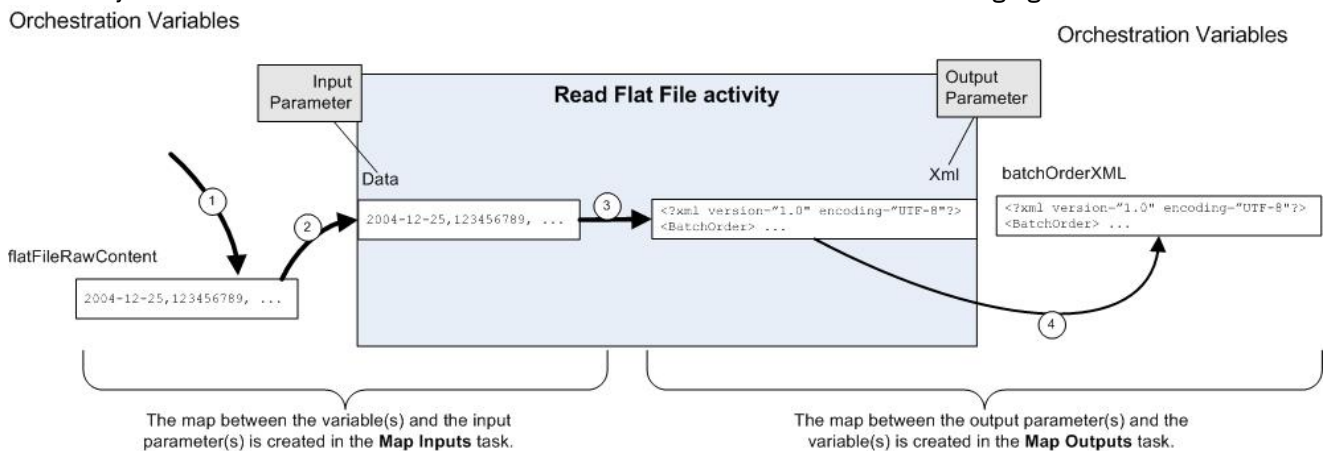
For instructions about creating maps while configuring a Map Variables activity, see [Map Activity](#)

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:



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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## Feedback | Notices

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## 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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## 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.

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

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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](#)

---

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

## 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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### Feedback | Notices

## 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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## Replacing a Variable used in a Map

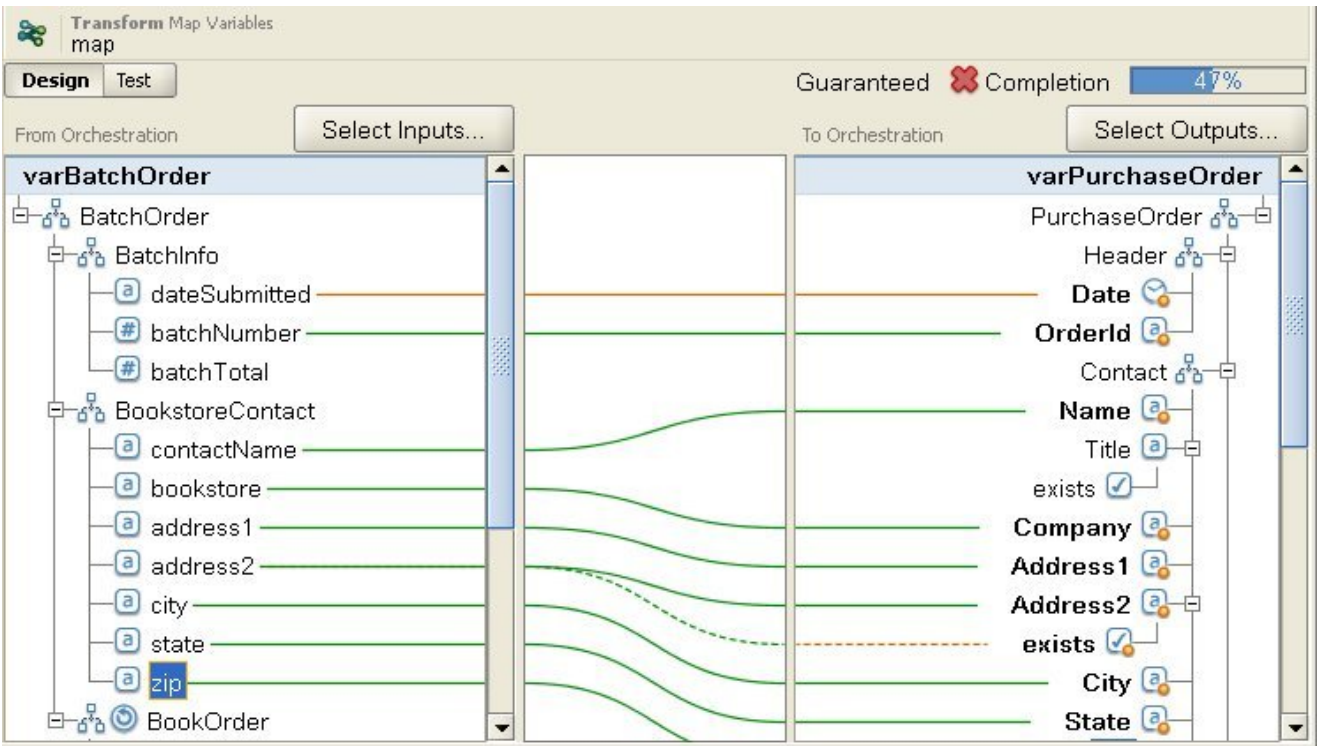
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### About this task

---

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.

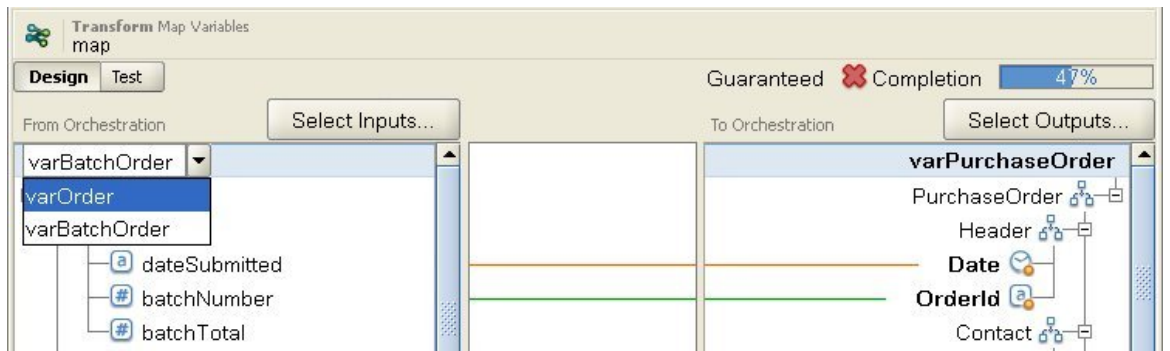
To replace an original variable used in a map:

## 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:
  - 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.
  - 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. 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.

- Forward - Searches from the root node or current node down through the schema in node-tree order.
  - 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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## 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.

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](#)

---

### Feedback | Notices

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map\\_Assigning\\_a\\_Default\\_Value\\_for\\_a\\_Node.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map_Assigning_a_Default_Value_for_a_Node.html)

# 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](#)

---

### Feedback | Notices

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

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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](#)

---

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

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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](#)

---

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

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map\\_mapping\\_conditional\\_mapping\\_f\\_or\\_a\\_recurring\\_node.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map_mapping_conditional_mapping_f_or_a_recurring_node.html)

## 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 display warnings for any mapping rules that it attempts to create that are not guaranteed.

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

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

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_Automapping\\_Matching\\_Nodes.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_Automapping_Matching_Nodes.html)

## 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](#)

---

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

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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.


Source	Destination	Action to take
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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[Feedback](#) | [Notices](#)

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

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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:
  - o Add New Occurrence > After - Select this option if you want add the new occurrence after the currently selected destination occurrence.
  - o 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:

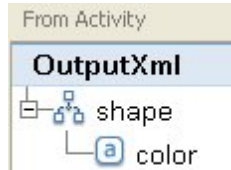
### Procedure

---

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>`

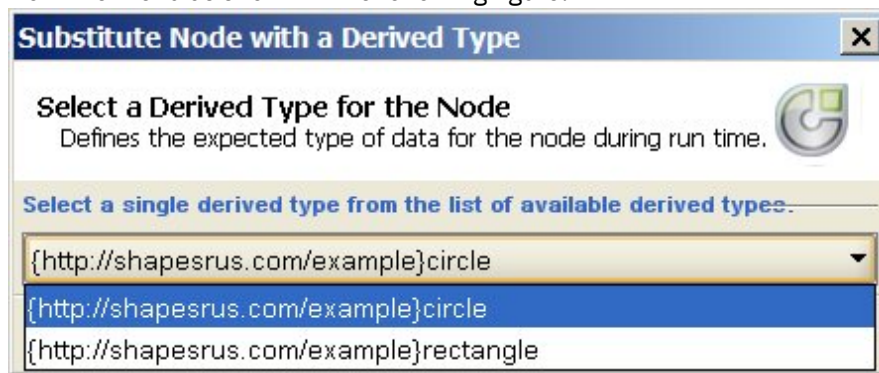
element is not selected, only the child element (named color) of the base type are displayed in the From



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.

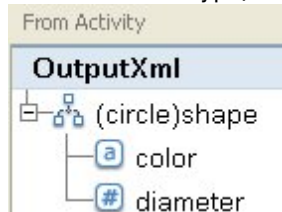
3. In the From Activity and To Orchestration panes of an activity, select the derived type expected during run time, by right-clicking on the node and from the menu selecting the Substitute Node With ... option. The Substitute Node with a Derived Type dialog box open the menu, the available derived types 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"/>
    <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:schema>

```

Defines an element based on one of the derived types of shapeType.

Base type named shapeType.

Derived type named circle that extends the base type named shapeType.

Derived type named rectangle that extends the base type named shapeType.

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:schema>

```

- [Select a substitution type in a mapping pane](#)
- [Remove the Derived Type Associated with a Node](#)

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



## Select a substitution type in a mapping pane

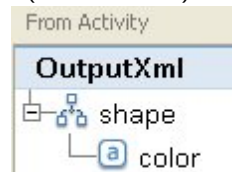
### About this task

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.

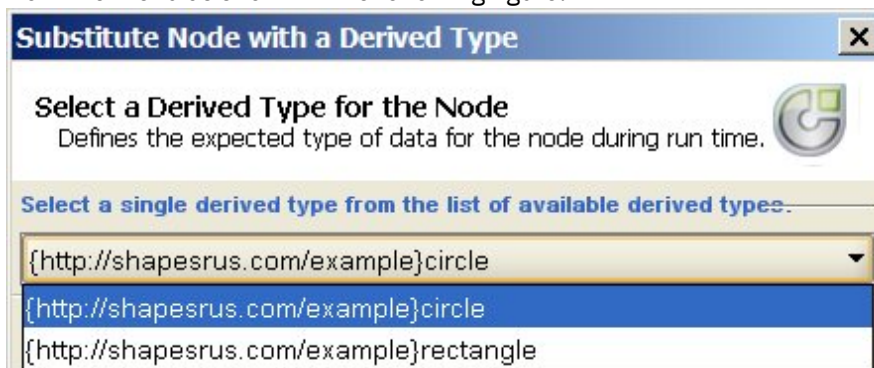
For example, the Read XML activity uses an XML Schema to define the output parameter of the activity. In the Configure task of the Checklist for the Read XML activity, select an XML variable that defines the node of the XML Schema to use the output parameter. Using example XML Schema shown in the preceding 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 opens, 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:

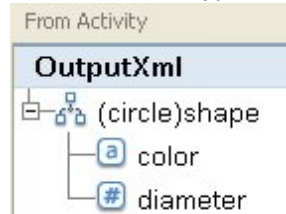


4. Select one of the derived types. The selected derived type determines the expected type of XML instance document during run time.



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](#)

---

[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/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 Unsubstitute Node option from the menu. A Unsubstitute 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_Mapping\\_Rules\\_That\\_Are\\_Automatically\\_Deleted.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_Mapping_Rules_That_Are_Automatically_Deleted.html)

# 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](#)

---

## 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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# 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map\\_Removing\\_Mapping\\_Rules\\_With\\_Links.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map_Removing_Mapping_Rules_With_Links.html)

## 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](#)

---

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map\\_Removing\\_Mapping\\_Rules\\_With\\_No\\_Links.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map_Removing_Mapping_Rules_With_No_Links.html)

## 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map\\_Removing\\_Mapping\\_Rules\\_Remove\\_All\\_Rules.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map_Removing_Mapping_Rules_Remove_All_Rules.html)

## 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:
  - Case Sensitive - Exactly matches the case of the text entered in the Text to find field.
  - Whole Words Only - Matches the search text only as whole words. No partial matches are allowed.
  - Wrap Search - Continues searching through the entire schema regardless of where the search was started.
  - Forward - Searches from the root node or current node down through the schema in node-tree order.
  - 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](#)

---

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

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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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# 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:
  - 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.
  - 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:

- Generate sample data - To generate sample XML data valid against the source schema, select the Map > Generate Test Data from the toolbar menu.
  - 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](#)

---

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

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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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map\\_Saving\\_or\\_Clearing\\_the\\_Transformation\\_Result.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map_Saving_or_Clearing_the_Transformation_Result.html)

## 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map\\_The\\_Emit\\_CData\\_Option.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/map_The_Emit_CData_Option.html)

## 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](#)

---

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

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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:

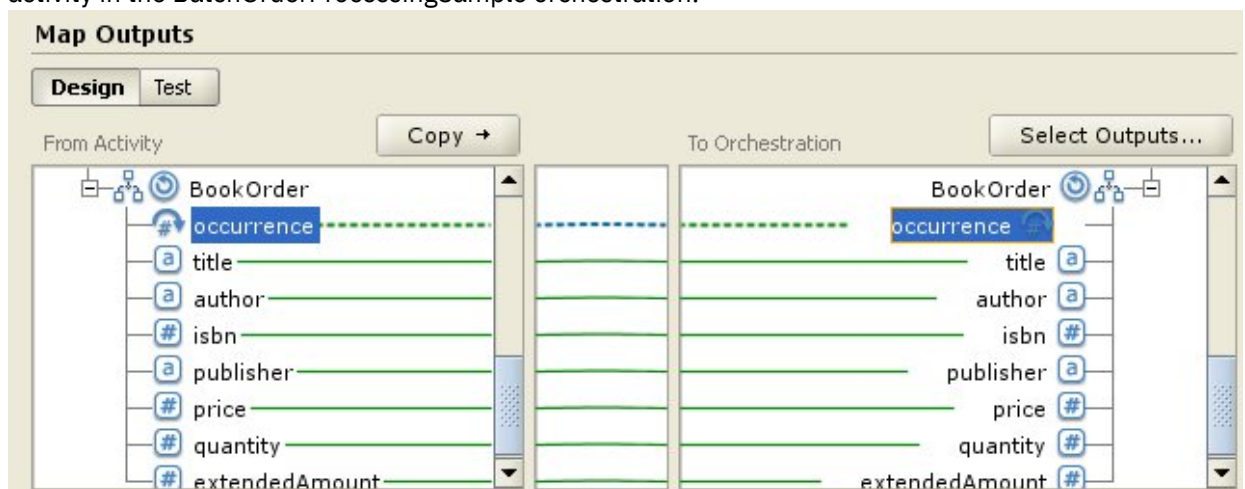
Predicate Characters	Description
*:	Specifies this predicate applies to any namespace of the source node.
title/	Specifies to apply this predicate against the title node of the current source node.
starts-with(., 'B')	Specifies this predicate returns only nodes that have title nodes that start with the 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`

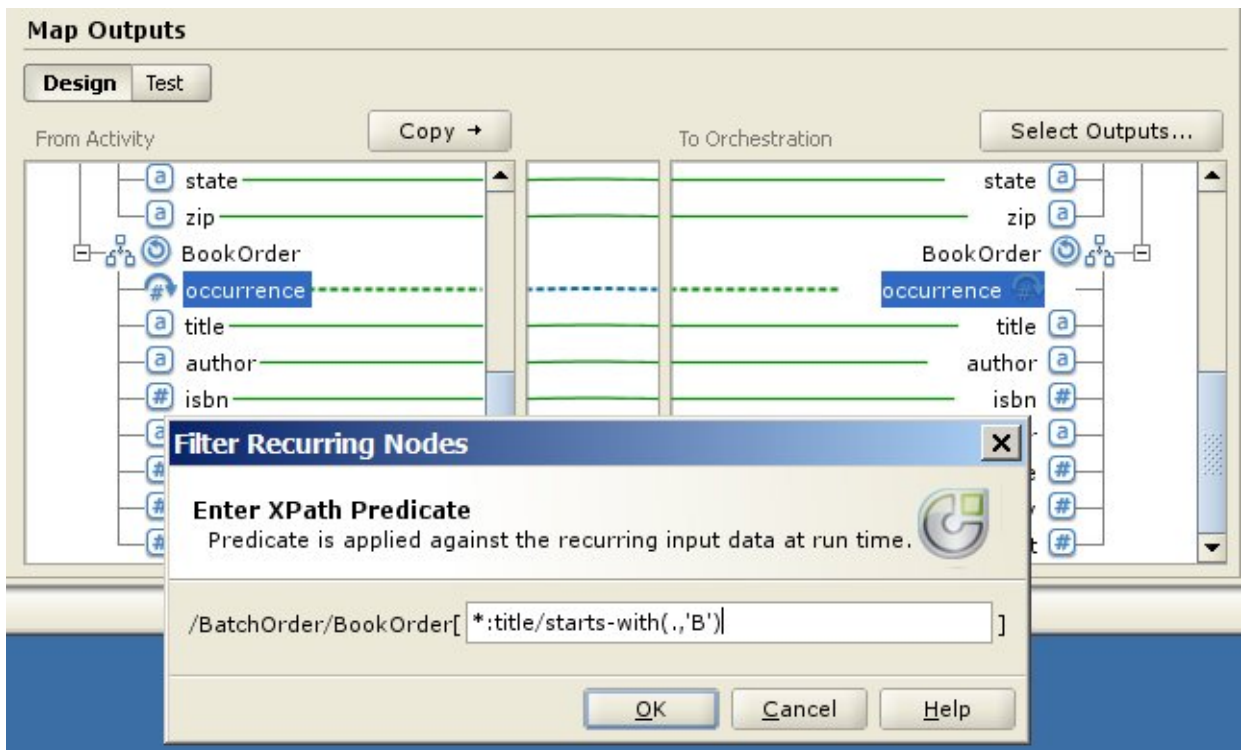
To specify a predicate on a recurring node:


## 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](#)

---

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

## 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.


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

---

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 nillable 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 nillable. 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 nillable.
8. Click OK.

**Parent topic:** [Using Custom Functions and Lookup Tables](#)

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## Editing Lookup Tables

---

### About this task

---

To edit an existing 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. 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:

- Right-click the table node in the Functions tab and from the menu select Edit....
- 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:

- **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.
- **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.
- **Change the Default Value field** - 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.
- **Change the Value if "nil" value field** - Edit the current setting of the Value if "nil" value field. This property only affects nillable 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 nillable. 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 nillable.

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

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 boolean

For 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
    - boolean
  - d. 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.
  - 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.

**Parent topic:** [Using Custom Functions and Lookup Tables](#)

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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...
  - 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.
    - 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>

**Parent topic:** [Using Custom Functions and Lookup Tables](#)

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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.
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

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Figure 1. No source node function icon



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## Assigning a Function While Creating Maps

---

### About this task


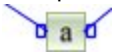
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To assign a function while creating maps:

## 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:
  - Create links from other source nodes (as described in step 3) 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.
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


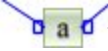
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1. Select the Function tab. In the Function tab, the list of available functions is displayed.
2. From the Function tab, drag a function onto an existing mapping rule in the Mapping Editor.

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.

**Parent topic:** [Using Custom Functions and Lookup Tables](#)

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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.

**Parent topic:** [Using Custom Functions and Lookup Tables](#)

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## Deleting a Function from a Mapping Rule

---


### About this task

---


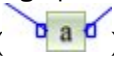
To delete a function used in a mapping rule in the Mapping Editor:

### 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.

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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 multiplies 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

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### About this task

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To change the order of a parameter in the Parameters list:

## Procedure


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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

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## About this task

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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


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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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- [Mapping functions overview](#)  
There are seven mapping function types: String, Mathematical, HTTP Header, Miscellaneous, Binary Data, Date, and Security functions.
- [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.
- [Absolute Value function](#)  
The **Absolute Value** function determines the absolute value of the parameter.
- [Add function](#)  
The **Add** function adds all the parameters.
- [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.
- [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.
- [Align Center function](#)  
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.
- [Align Left function](#)  
The **Align Left** function places a string within a padding string starting from the left-most character.
- [Align Right function](#)  
The **Align Right** function places a string within a padding string ending at the right-most character.
- [Average function](#)  
The **Average** function determines the average value for the sets of numeric nodes in all parameters.
- [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.
- [Boolean function](#)  
The **Boolean** function evaluates the parameter and returns either 'true' or 'false' depending on the datatype of the input:
- [Ceiling function](#)  
The **Ceiling** function rounds the parameter up to the next closest integer.
- [Concatenate function](#)  
The **Concatenate** function joins all parameter strings into a single result in the order you specify the parameters.
- [Cast From Base64Binary function](#)  
The **Cast From Base64Binary** function casts from one specific XML Schema data type to another XML Schema data type.
- [Casts From HexBinary function](#)  
The **Casts From HexBinary** function casts from one specific XML Schema data type to another XML Schema data type.
- [Cast To Base64Binary function](#)  
The **Cast To Base64Binary** function casts from one specific XML Schema data type to another XML Schema data type.

- [Cast To HexBinary function](#)  
The **Cast To HexBinary** function casts from one specific XML Schema data type to another XML Schema data type.
- [CopyOf function](#)  
The **CopyOf** function copies the entire contents of the source node to the destination node.
- [Count Function](#)  
The **Count** function determines the number of nodes in all of the sets of nodes in parameters.
- [Decode Configuration Property of Type Password](#)  
The **Decode Configuration Property** of type Password decodes base64-encoded passwords between two orchestrations.
- [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.
- [Divide function](#)  
The **Divide** function returns the decimal quotient of the first parameter divided by all subsequent parameters.
- [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.
- [Extract Query Parameter function](#)  
The **Extract Query Parameter** function extracts a query string from the HTTP header's URI string.
- [Extract URI Path function](#)  
The **Extract URI Path** function extracts a URI from the HTTP header's URI string.
- [Floor function](#)  
The **Floor** function rounds the parameter down to the next closest integer.
- [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.
- [Format Number function](#)  
The **Format Number** function returns a string that is a number formatted to fit the specified pattern.
- [Generate RFC2104 HMAC Compliant Signature](#)  
HMAC is a mechanism for message authentication using cryptographic hash functions.
- [Get Current Date and Time function](#)  
The **Get Current<sup>®</sup> 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.

## 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).

<b>String functions</b>	<b>Definition</b>
Trim	Trims all leading and trailing space from the parameter and normalizes all space within the parameter.
Uppercase	Converts all lowercase English characters to the corresponding uppercase character.
<b>Mathematical functions</b>	<b>Description</b>
Absolute Value	Determines the absolute value of a parameter.
Add	Adds all parameters.
Average	Determines the average value of the numeric nodes or sets of nodes in parameters.
Ceiling	Rounds the parameter up to the next closest integer.
Count	Counts the number of nodes in all the nodes or sets of nodes in parameters.
Divide	Returns the quotient of the first parameter that is divided by all the subsequent parameters.
Floor	Rounds the parameter down to the next closest integer.
Maximum	Determines the highest value in the numeric nodes or sets of nodes in parameters.
Minimum	Determines the lowest value in the numeric nodes or sets of nodes in parameters.
Modulo	Determines the remainder from dividing the first parameter by all subsequent parameters.
Multiply	Returns the product of all parameters.
Round	Rounds a number to the closest integer.
Subtract	Returns the difference of the first parameter less all subsequent parameters.
Sum	Adds all the numeric nodes or sets of node in parameters.
<b>HTTP Header functions</b>	<b>Description</b>
Extract HTTP Header Field function	Extracts a string with a specified delimiter. It can also be used to further extract strings from HTTP headers.
Extract URI Path function	Extracts a URI from the HTTP header's URI string.
Extract Query Parameter function	Extracts a query string from the HTTP header's URI string.
<b>Miscellaneous functions</b>	<b>Description</b>
Boolean	Evaluates the parameter and returns either true or false depending on the data type of the input.
CopyOf	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.
Not	Returns true if the parameter evaluates as false. Returns false if the parameter evaluates as true.
Number	Changes the data type of the parameter to number.

<b>Miscellaneous functions</b>	<b>Description</b>
<a href="#">Position</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: <code>xs:base64Binary</code> to the XML schema data type: <code>xs:string</code> .
<a href="#">Cast From HexBinary function</a>	Casts from the XML schema data type: <code>xs:hexBinary</code> to the XML schema data type: <code>xs:string</code> .
<a href="#">Cast To Base64Binary function</a>	Casts from the XML schema data type: <code>xs:string</code> to the XML schema data type: <code>xs:base64Binary</code> .
<a href="#">Cast To HexBinary function</a>	Casts from the XML schema data type: <code>xs:string</code> to the XML schema data type: <code>xs:hexBinary</code> .
<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: <code>xs:dateTime</code> .
<a href="#">Get Current Date function</a>	Returns the current date (with the local timezone) as an XML schema data type: <code>xs:date</code> .
<a href="#">Get Current Time function</a>	Returns the current time (with the local timezone) as an XML schema data type: <code>xs:time</code> .
<a href="#">Read Date String function</a>	Converts a string (that contains a date and time) to the XML schema data type: <code>xs:dateTime</code>
<a href="#">Format Date String function</a>	Converts an XML schema data type: <code>xs:dateTime</code> 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<sub>n</sub> – 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

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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.


**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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## 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](#)

---

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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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## 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](#)

---

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

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## 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](#)

---

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## 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](#)

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## 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](#)

---

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## 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](#)

---


### Feedback | Notices

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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.


**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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[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. IBM® Cast Iron® 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.

**Parent topic:** [Mapping Function Reference](#)

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## 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; char-set=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: *char-set*


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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[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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## Extract URI Path function

---




The **Extract URI Path** function extracts a URI from the HTTP header's URI string.

Input – 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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[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/osdocs/java/jdk1.3/docs/api/java/text/SimpleDateFormat.html>.

Pattern Letter	Description	Example1	Example2
G	Era 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 (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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## 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 = ‰ (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 – 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.
- #0.000% – formats a decimal number as a percentage with at least three decimal places.
- #,##0.00;(#,##0.00) – 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.

### Example 1

\$#,##0.00 – 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

#0.000% – formats a decimal number as a percentage with at least three decimal places.

```
format-number(.67890123, '#0.000%') = '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:** 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Get\\_Current\\_Date\\_and\\_Time\\_function.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/Get_Current_Date_and_Time_function.html)

## 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.

### About this task

---

**Parameter:** 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 Current® Time** function returns the current time (with the local timezone) as a XML Schema data type: xs:time

### About this task

---

**Parameter:** 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](#)

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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.

**Parent topic:** [Mapping Function Reference](#)

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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/osdocs/java/jdk1.3/docs/api/java/text/SimpleDateFormat.html>.

Pattern Letter	Description	Example1	Example2
G	Era 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

Pattern Letter	Description	Example1	Example2
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 (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 or replacement characters is equal to 'ABC'
- input string is equal to 'aWWWbYYYYcPPpabc'

The result string is equal to 'AWWWBYYYcPPpABC' 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 'aWWWbYYYYcPPpABC'.)

**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 a empty string - a string with no characters. For a workaround, see Example 3.

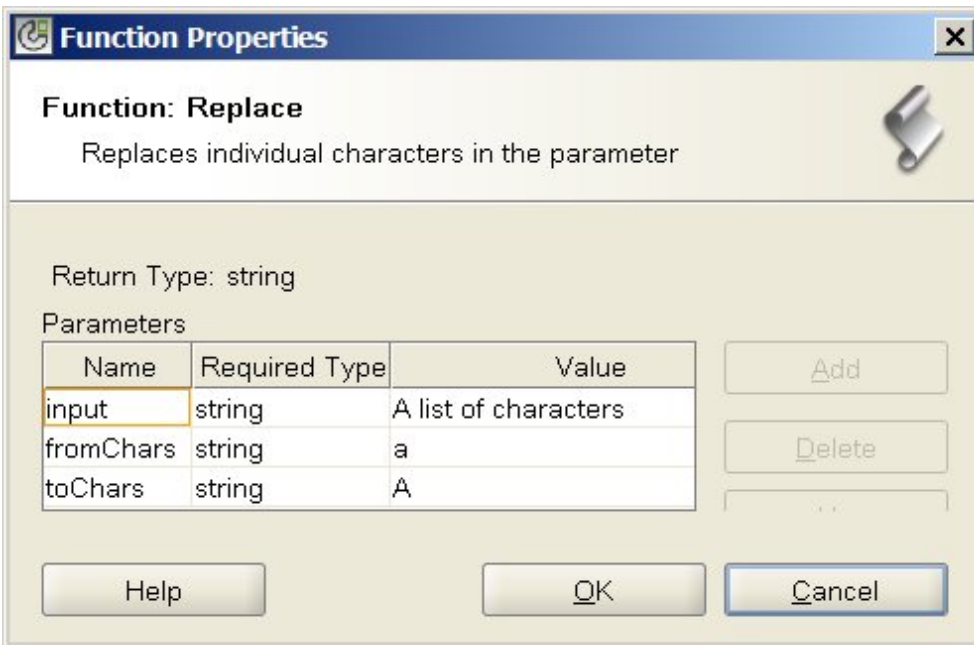
**Returns:** string

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.

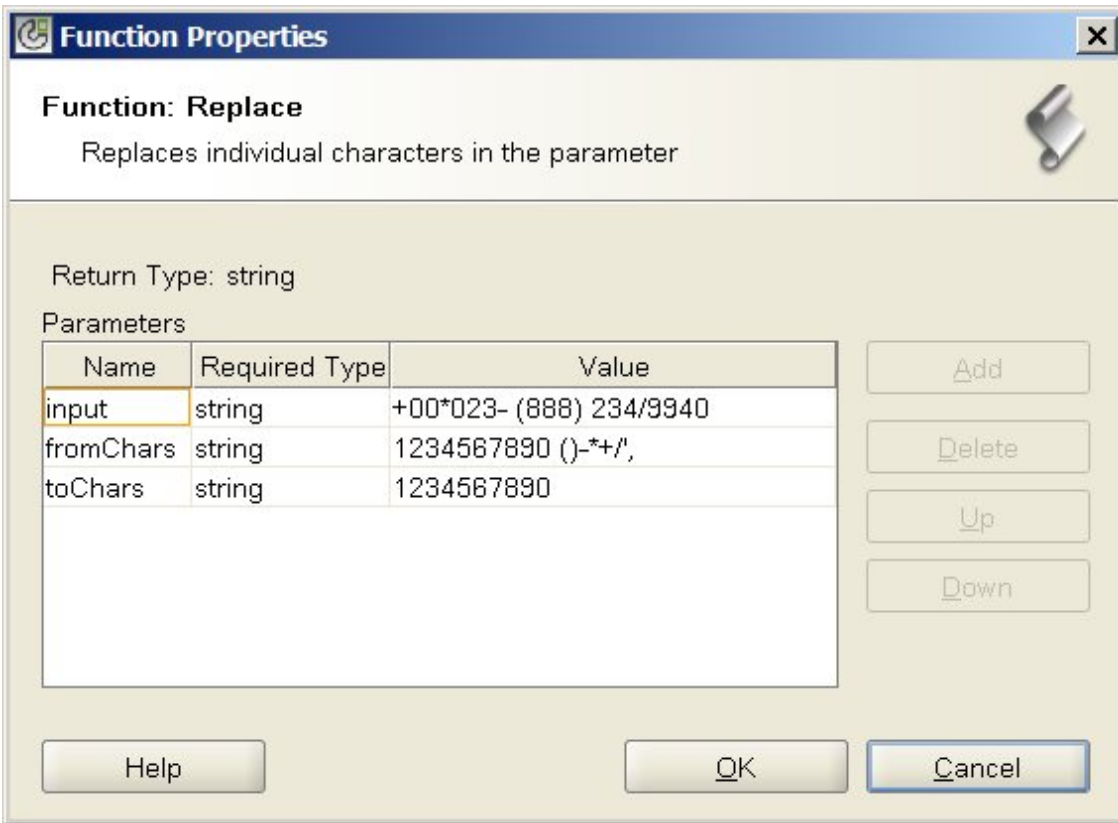
Note: In this example, the input parameter is hardcoded to a specific value. Typically this value is supplied by a source node in a map.

## 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.

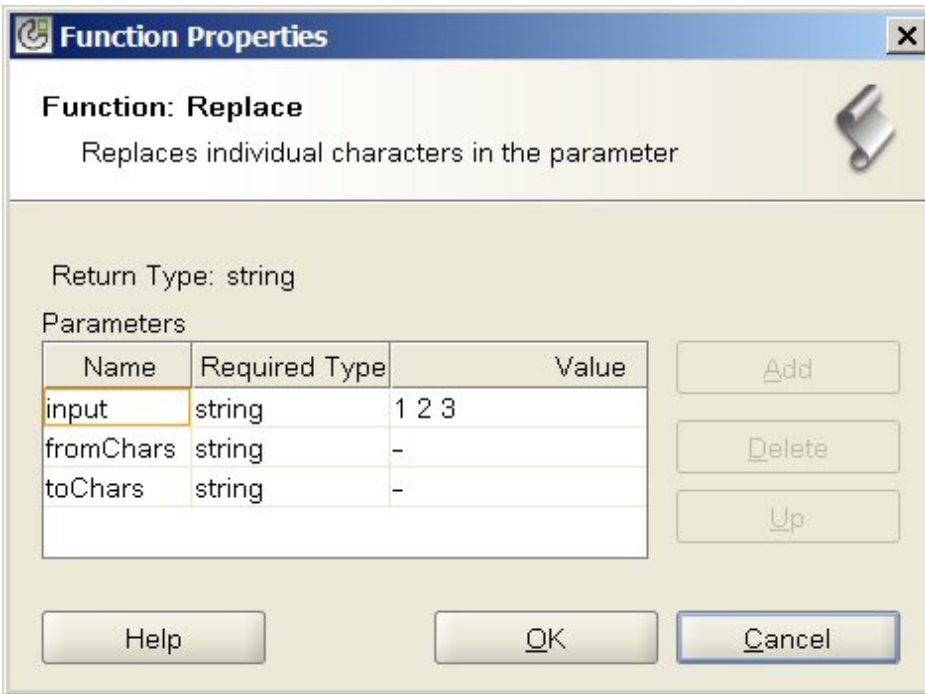
The run-time result of running this function is the following string:

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:

123


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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## 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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## 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',
```

**Parent topic:** [Mapping Function Reference](#)

---

## Feedback | Notices

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_Substring\\_After.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_Substring_After.html)

## 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](#)

---

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

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## 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_Subtract.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_Subtract.html)

## 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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## 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 '	'first line second line third line'

**Parent topic:** [Mapping Function Reference](#)

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

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref\\_Trim.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ref_Trim.html)

## 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

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[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](#)

### **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.

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## Getting started with Cast Iron Express

---

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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## 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

---

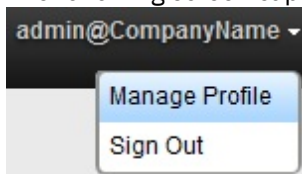
You can add details, or change your current details by using the Manage Profile view. You can also change your account password.

Sign in to your Cast Iron® Express® account.

## Procedure

---

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  .

**Parent topic:** [Getting started with Cast Iron Express](#)

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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.

**Parent topic:** [Getting started with Cast Iron Express](#)

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# The Cast Iron Express Help Center

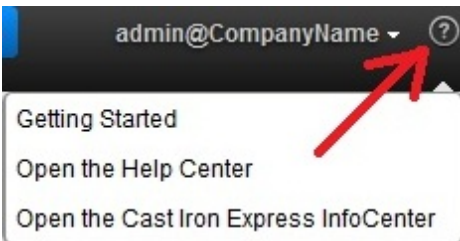
---

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.

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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## 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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## 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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## 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®	<ul style="list-style-type: none"><li>• salesforce.com</li></ul>
MySQL	<ul style="list-style-type: none"><li>• salesforce.com</li></ul>
SQL Server	<ul style="list-style-type: none"><li>• salesforce.com</li></ul>
Oracle	<ul style="list-style-type: none"><li>• salesforce.com</li></ul>
salesforce.com	<ul style="list-style-type: none"><li>• DB2</li><li>• MySQL</li><li>• SQL Server</li><li>• Oracle</li><li>• salesforce.com</li></ul>
FTP	<ul style="list-style-type: none"><li>• salesforce.com</li></ul>
Local File	<ul style="list-style-type: none"><li>• salesforce.com</li></ul>
Dropbox	<ul style="list-style-type: none"><li>• salesforce.com</li></ul>

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

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## Supported file types for FTP sources

---

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

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

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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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#### Feedback | Notices

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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.

**Parent topic:** [Using the Integration editor](#)

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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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## 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
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

Operation	Resulting activity
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

Operation	Resulting activity
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

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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

---

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.


Source	Target	Comment
Any	String	All data types are converted to string.

Source	Target Comment
Any Boolean	"T," "t," "true," "TRUE," "tRuE," "1" and similar are cast to "TRUE." Anything else is cast as "FALSE."
String	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.
String	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.
Number	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

---

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

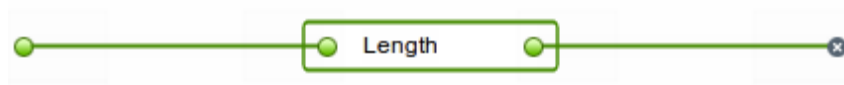
---

Click the required function. A function box is inserted into the mapping.

## Example

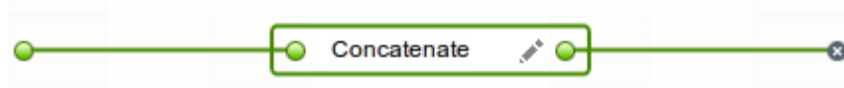
---

This example shows a simple String Length function.

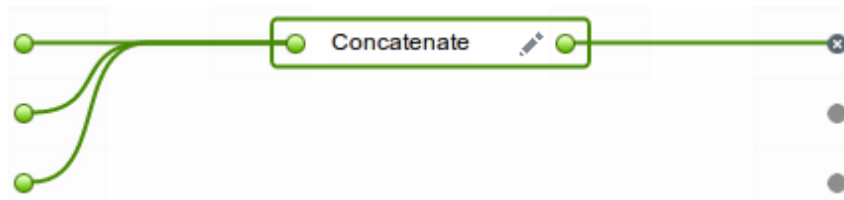



Also, the Result column on the right is updated to reflect the result of the function instead of a simple copy.

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

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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

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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.
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.

<b>M a p p i n g f u n c t i o n</b>	<b>Description</b>
Str ing	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.
Su bs tri ng	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.
Tri m	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

<b>Mappi ng functi on</b>	<b>Description</b>
Absol ute 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.
Ceilin g	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>• ¤ (\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.

<b>Mapping function</b>	<b>Description</b>
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

<b>Mapping function</b>	<b>Description</b>
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

<b>Mapping function</b>	<b>Description</b>
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
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>• <code>yy</code> - Last two digits of year. For example, 86 from 1986</li> <li>• <code>MM</code> - Two-digit month</li> <li>• <code>dd</code> - Two-digit date</li> <li>• <code>HH</code> - Two-digit hour</li> <li>• <code>mm</code> - Two-digit minutes</li> <li>• <code>ss</code> - 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</p> <p>format string: MM/dd/yyyy</p> <p>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>• <code>-10H</code> - A timezone of minus ten hours</li> <li>• <code>+5H30M</code> - A timezone of plus 5 hours and 30 minutes</li> <li>• <code>0H</code> - 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

---

You can delete an integration at any time from the Integrations page.

### Procedure


---

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

---

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

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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.

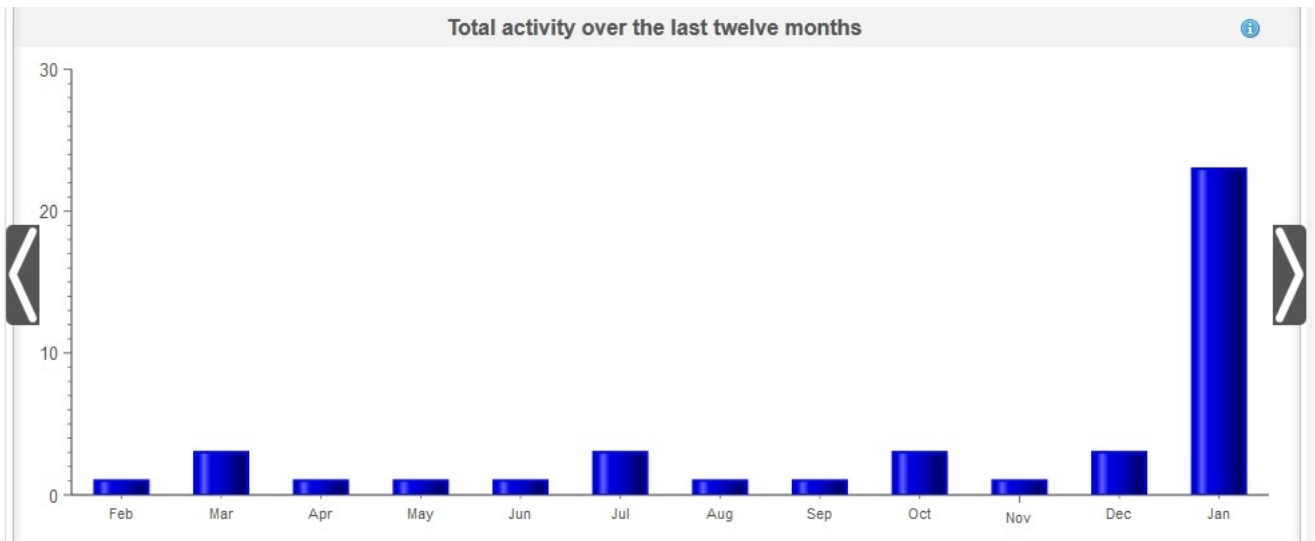
You can use the left and right arrows to scroll through various utilization charts:

- 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](#)

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

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## 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.

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<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.

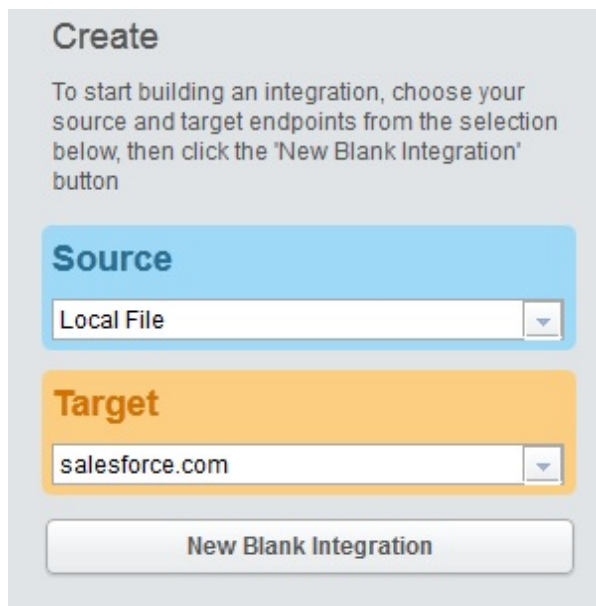
### Step 1: Create the Integration

---

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.



**Create**

To start building an integration, choose your source and target endpoints from the selection below, then click the 'New Blank Integration' button

**Source**

Local File

**Target**

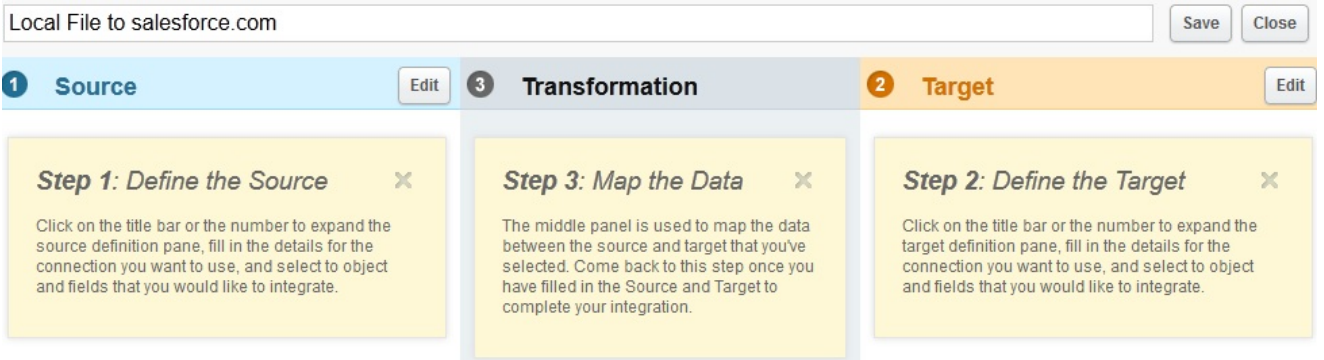
salesforce.com

**New Blank Integration**

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



## Step 2: Configure the endpoints

In the Source header, click Edit.

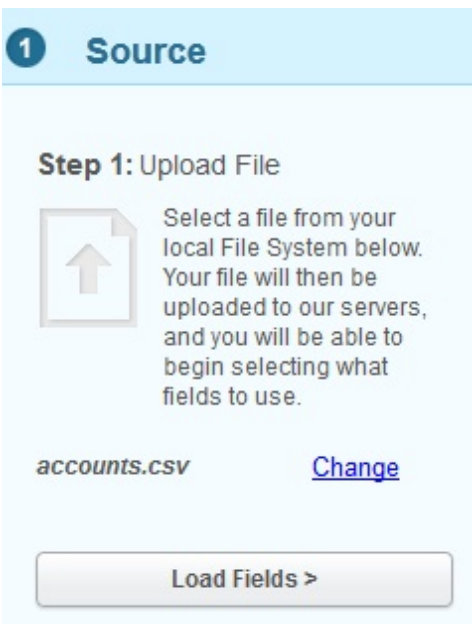
The source endpoint configuration view opens.

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
```



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.

The screenshot shows the 'Source' configuration page. At the top, there is a text input field containing 'Local File to salesforce.com' and a 'Save' button. Below this is a blue header bar with '1 Source' and a 'Done' button. The main area is divided into two sections. On the left, 'Step 1: Upload File' includes an upload icon, instructions to select a file from the local system, and a 'Load Fields >' button. Below the instructions, the file 'accounts.csv' is listed with a 'Change' link. On the right, the 'Available Fields' section contains configuration options: 'Separator character' (Comma (.)), 'Quote character' (Single quote (')), 'File has header row' (checked), and 'Number of footer rows' (0). A 'Continue' button is located at the bottom right of this section.

Click Continue to display all of the available fields within the selected file.

This screenshot shows the 'Source' configuration page after clicking 'Continue'. The 'Available Fields' section now displays a table of fields from the CSV file. The table has three columns: 'Field', 'Type', and 'Sample Data'. All fields are selected, as indicated by checked checkboxes in the first column. The 'Field' column includes a 'Record' header and a list of fields: id, name, streetAddress, city, postcode, and phoneNumber. The 'Type' column shows all fields are of type 'string'. The 'Sample Data' column provides example values for each field.

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	SW1A2AA
<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** Edit

Field	Type	Sample
File		...
Record		...
id	xy	0
name	xy	AcmeCo
streetAddress	xy	10
city	xy	London
postcode	xy	SW1A 2AA
phoneNumber	xy	0201234

**3 Transformation**

**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.

**2 Target** Edit

**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:

**2 Target**

Existing Connections:

Operations: Update objects

**Connection information**

Name \*

Username \*

Password \*

Security token \*

**Available Objects**

- Account
- AccountContactRole
- AccountFeed
- AccountHistory
- AccountPartner
- AccountShare
- ActivityHistory
- AdditionalNumber
- AggregateResult
- ApexClass
- ApexComponent
- ApexLog
- ApexPage
- ApexTrigger
- Approval
- Asset
- AssetFeed
- AssignmentRule
- AsyncApexJob
- Attachment
- BrandTemplate
- BusinessHours

**Available Fields** Select All | Clear All

Field	Type
<input checked="" type="checkbox"/> Id *	tns:ID
<input type="checkbox"/> IsDeleted	xsd:boolean
<input type="checkbox"/> MasterRecordId	SalesForce.c... <i>i</i>
<input checked="" type="checkbox"/> Name	xsd:string
<input type="checkbox"/> Type	xsd:string
<input type="checkbox"/> ParentId	SalesForce.c... <i>i</i>
<input checked="" type="checkbox"/> BillingStreet	xsd:string
<input checked="" type="checkbox"/> BillingCity	xsd:string
<input type="checkbox"/> BillingState	xsd:string
<input checked="" type="checkbox"/> BillingPostalCode	xsd:string
<input type="checkbox"/> BillingCountry	xsd:string
<input type="checkbox"/> ShippingStreet	xsd:string
<input type="checkbox"/> ShippingCity	xsd:string
<input type="checkbox"/> ShippingState	xsd:string
<input type="checkbox"/> ShippingPostalCode	xsd:string
<input type="checkbox"/> ShippingCountry	xsd:string
<input checked="" type="checkbox"/> 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.

Local File to salesforce.com

Source				Transformation		Target		
Field	Type	Sample			Field	Type	Result	
File		...			Account			
Record		...			Account			
id	xy	0	⇄	●	Id *	xy	[⊕]	
name	xy	AcmeCo	⇄	●	Name	xy	[⊕]	
streetAddress	xy	10	⇄	●	BillingStreet	xy	[⊕]	
city	xy	London	⇄	●	BillingCity	xy	[⊕]	
postcode	xy	SW1A2AA	⇄	●	BillingPostalCode	xy	[⊕]	
phoneNumber	xy	02012345	⇄	●	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.

Local File to salesforce.com Save Close

Source			3 Transformation	Target		
Field	Type	Sample		Field	Type	Result
File		...		Account		
Record		...		Account		
id	xy	0	● — (+) — ○	Id *	xy	0 [⚙]
name	xy	AcmeCo	● — (+) — ○	Name	xy	Acm... [⚙]
streetAddress	xy	10	● — (+) — ○	BillingStreet	xy	10 ... [⚙]
city	xy	London	● — (+) — ○	BillingCity	xy	Lon... [⚙]
postcode	xy	SW1A 2AA	● — (+) — ○	BillingPostalCode	xy	SW... [⚙]
phoneNumber	xy	02012345	● — (+) — ○	Phone	xy	020... [⚙]

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 <small>LOCAL FILE SALESFORCE.COM</small>	Sep 11, 2012 12:41:37 PM by admin@CompanyName	Stopped	<span>Run</span> <span>Change</span>

## 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 LOCAL FILE SALESFORCE.COM	Sep 11, 2012 12:41:37 PM by admin@CompanyName	Running...	Run accounts.csv Change

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 navigation bar with three tabs: 'All Activity' (12), 'Integration Activity' (4), and 'Alerts' (0). Below the tabs, a list item is shown for the integration 'Local File Accounts to salesforce.com Account', which completed Job 8211C9A1B1A89AC337CB654A34E64B42 at 2012-09-08 13:40:19.728. A second timestamp '08 September 2012 14:40:21' is also visible.

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.

The screenshot shows a notification message with a green checkmark icon. The text reads: 'Integration Local File Accounts to salesforce.com Account completed Job 8211C9A1B1A89AC337CB654A34E64B42 at 2012-09-08 13:40:19.728'. There is a close button (X) on the right side of the message.

**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

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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

---

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

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

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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


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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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## Downloading and Installing SAP JAR Files and DLLs

---

### Before you begin

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You must have an SAP User ID and password to enter the SAP Support Portal to download the files.

### About this task

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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 `sapj_idoc30P_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 `sapjdoc30P_x-1000xxxx.zip` file.
    - Use the decompression tool to extract the contents of the compressed file to a temporary directory, for example, `C:\temp\sapjdoc30P_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


---

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

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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

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

## 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




Reserved Characters	Description
'\'	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 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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## 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](#)

---

## 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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### Feedback | Notices

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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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### Feedback | Notices

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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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## Feedback | Notices

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

## Working with Project Configurations

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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.
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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## 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

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### 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.



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## 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](#)

---

 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/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](#)

---

[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.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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 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/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 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.

---

### [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.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.

---

### [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.live.doc/CloudHelp/Monitoring/viewingOrchestrationJobLogs.html>

## 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

 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/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](#)

 Last updated: Thursday, 2 June 2016  
file:///dcs/markdown/workspace/Transform/out.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](#)

---

[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.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.

---

## 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.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

 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/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](#)

---

[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.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  
file:///dcs/markdown/workspace/Transform/out.html

<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](#)

 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/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  
file:///dcs/markdown/workspace/Transform/out.html

<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](#)

 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/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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[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.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](#)

---

### 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.live.doc/CloudHelp/Permissions/grantingProjectConfigurationPermissions.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 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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## 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.live.doc/CloudHelp/Secure\\_Connector/toc\\_using\\_secure\\_connectors.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/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® 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

 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/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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## Feedback | Notices

 Last updated: Wednesday, 15 June 2016  
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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 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 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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## 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 `sapjdoc30P_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: `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:
    - Double-click the `sapjdoc30P_x-1000xxxx.zip` file.
    - Use the decompression tool to extract the contents of the compressed file to a temporary directory, for example, `C:\temp\sapjdoc30P_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.
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 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>` > IBM® > Cast Iron® 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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## 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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[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.live.doc/CloudHelp/Secure\\_Connector/upgradingsecureconnectors.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Secure_Connector/upgradingsecureconnectors.html)

## Troubleshooting Secure Connectors

---

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

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Secure\\_Connector/troubleshootingsecureconnectors.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Secure_Connector/troubleshootingsecureconnectors.html)

## Security

---


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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[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.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

---


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.

<b>Certificate Terminology</b>	<b>Definition</b>
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](#)

 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/Security/aboutCertificates.html>

## Editing Security Settings


---

### 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:
  - o Standard
  - o Strong
5. Click Save.

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

 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/Security/editingSecuritySettings.html>

## 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](#)

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

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Security/generatingCertificateSigningRequests.html>

## Generating Self-Signed Certificates

---

### Procedure

---

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

---




The self-signed certificate displays in the Key Store table.

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

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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.live.doc/CloudHelp/Security/generatingSelfSignedCertificates.html>

## Importing Certificates

---

### 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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[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.live.doc/CloudHelp/Security/importingCertificates.html>

## 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


---

The updated alias is displayed on the Certificates page.

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

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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.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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[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.live.doc/CloudHelp/Security/uploadingCertificates.html>

## Working with Logs

---


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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### [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.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](#)

 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/Working\\_with\\_Logs/specifyingSystemLogSettings.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Working_with_Logs/specifyingSystemLogSettings.html)

## 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.

System Log Content	Description
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

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Working\\_with\\_Logs/viewingSystemLogs.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.live.doc/CloudHelp/Working_with_Logs/viewingSystemLogs.html)

## 웹 관리 콘솔 정보

웹 관리 콘솔(WMC) 정보 주제는 WMC에 관한 일반 정보를 제공합니다.

- [관리 콘솔 설정 정보](#)  
설정 링크에서 다양한 사용자 프로파일, 세션 및 표시장치 환경 설정을 관리할 수 있습니다. 웹 관리 콘솔은 영어만 지원합니다. 설정 링크는 관리 콘솔의 오른쪽 상단 모서리에 있습니다.
- [기술 지원 문의](#)  
IBM® 지원 센터 페이지를 통해 기술 지원 문제를 제출하십시오.
- [관리 콘솔 탐색](#)  
관리 콘솔은 통합 환경의 다양한 시스템과 자원을 관리하고 모니터링할 수 있는 웹 기반 도구입니다. 이 환경은 물리적 통합 어플라이언스 또는 WebSphere® Cast Iron® Cloud의 환경일 수 있습니다.

## 관리 콘솔 설정 정보

설정 링크에서 다양한 사용자 프로파일, 세션 및 표시장치 환경 설정을 관리할 수 있습니다. 웹 관리 콘솔은 영어만 지원합니다. 설정 링크는 관리 콘솔의 오른쪽 상단 모서리에 있습니다.

설정 대화 상자에서 다음 설정 및 환경 설정을 보고 편집할 수 있습니다.

표 1. 사용자 프로파일 설정

사용자 프로파일 설정	설명
사용자 이름	현재 로그인된 사용자의 이름.
표시 이름	콘솔에 표시되고 로그에 표시되는 이름.

사용자 프로필 설정	설명
비밀번호	<p>현재 사용자의 비밀번호:</p> <ul style="list-style-type: none"> <li>• 최소 길이는 8자임</li> <li>• 최대 길이는 15자임</li> <li>• 4가지 다음 카테고리 중 3개의 문자를 포함해야 함: <ol style="list-style-type: none"> <li>1. 대문자</li> <li>2. 소문자</li> <li>3. 숫자</li> <li>4. 구두점(예: !, \$, #, %)</li> </ol> </li> <li>• 사용자 이름의 임의의 3개의 하위 문자열을 포함하지 않아야 함</li> <li>• 이전 비밀번호의 임의의 3개의 하위 문자열을 포함하지 않아야 함</li> </ul>
이메일	Current® 사용자 이메일 주소입니다. 이메일 알림이 이 이메일로 전송됩니다.
사용자 그룹	사용자가 구성원인 사용자 그룹.

## 로그인 정책

임의의 기간 동안 단일 사용자에게 대해 5번째 연속 로그인 실패가 발생할 때, 해당 사용자는 15초의 지연 간격 동안 다시 로그인하지 못합니다.

각 후속 로그인 실패에 대해, 지연 간격 용량에 도달할 때까지 지연 간격이 두 배가 됩니다. 지연 간격 용량은 1시간입니다. 사용자의 성공적인 로그인이 로그인 실패 개수 및 사용자의 지연 간격을 재설정합니다.

표 2. 세션 설정

세션 설정	설명
비활성 제한시간	<p>콘솔이 현재 사용자를 로그 오프하기 전에 기다리는 비활성 시간의 양입니다. 다음 제한시간 간격 중 하나를 선택할 수 있습니다.</p> <ul style="list-style-type: none"> <li>• 5분</li> <li>• 15분</li> <li>• 30분</li> <li>• 60분</li> <li>• 수행 안함</li> </ul>
대시보드 새로 고치기 간격	<p>콘솔이 보기를 새로 고치기 전에 기다리는 시간입니다. 다음 새로 고치기 간격 중 하나를 선택할 수 있습니다.</p> <ul style="list-style-type: none"> <li>• 15초</li> <li>• 30초</li> <li>• 60초</li> <li>• 해제</li> </ul>

표 3. 디스플레이 설정

디스플레이 설정	설명

디스플레이 설정	설명
시간대	콘솔에 표시되는 시간을 지정할 수 있습니다. 다음 표시 모드 중 하나를 지정할 수 있습니다. <ul style="list-style-type: none"> <li>로컬 시간(GMT-0800)</li> <li>원격 시간(GMT)</li> <li>GMT</li> </ul>
작업 로그의 페이지 크기	콘솔에 표시할 작업 로그의 행 수를 지정할 수 있습니다. 15, 25, 50 또는 100행을 표시할 것을 선택할 수 있습니다.
시스템 로그의 페이지 크기	콘솔에 표시할 시스템 로그의 행 수를 지정할 수 있습니다. 15, 25, 50 또는 100행을 표시할 것을 선택할 수 있습니다.
최신 작업의 최대 나이	콘솔에 표시되는 최신 작업의 나이를 지정할 수 있습니다. 예를 들어, 1시간을 지정하면 1시간이 지난 모든 작업은 표시되지 않습니다. 1시간, 2시간, 4시간, 8시간, 1일, 2일, 5일 또는 1주일인 작업은 포함할 수 있습니다.
최신 구성의 최대 나이	콘솔에 표시되는 최신 프로젝트 구성의 나이를 지정할 수 있습니다. 예를 들어, 1일을 지정하면 1일이 지난 모든 프로젝트 구성은 표시되지 않습니다. 1일, 2일, 5일, 1주, 2주, 3주 또는 4주가 된 프로젝트 구성을 포함할 수 있습니다.

상위 주제: [웹 관리 콘솔 정보](#)

## 기술 지원 문의

IBM® 지원 센터 페이지를 통해 기술 지원 문제를 제출하십시오.

자세한 정보는 <http://www.ibm.com/support/us/en/>의 내용을 참조하십시오.

상위 주제: [웹 관리 콘솔 정보](#)

## 관리 콘솔 탐색

관리 콘솔은 통합 환경의 다양한 시스템과 자원을 관리하고 모니터링할 수 있는 웹 기반 도구입니다. 이 환경은 물리적 통합 어플라이언스 또는 WebSphere® Cast Iron® Cloud의 환경일 수 있습니다.

관리 콘솔의 왼쪽에 있는 탐색 분할창은 다양한 시스템 및 자원을 보기, 구성 및 그에 대해 조치를 취할 수 있는 메뉴 페이지를 표시합니다.

관리 콘솔에 관리자로서 로그인한 경우 다음의 보고서를 볼 수 있습니다.

- **세부사항 공개:** 공개된 구성, 구성을 공개한 사용자 및 구성이 공개된 날짜 및 시간을 표시합니다.
- **로그인 히스토리:** 어플라이언스에 로그인한 사용자의 로그인 히스토리를 표시합니다. 로그인 히스토리에는 사용자의 이름, 로그인 시간 및 로그아웃 시간이 포함됩니다.

브라우저의 이전 및 다음 단추를 사용하여 관리 콘솔 페이지를 연 순서대로 해당 페이지를 이동할 수 없습니다. 사용자가 연 순서로 관리 콘솔 페이지를 이동하려면 관리 콘솔의 오른쪽 상단 모서리에 있는 이전 및 다음 화살표를 사용하십시오.

현재 로그인된 사용자가 우측 상단 모서리에도 표시됩니다. 사용자 프로파일 창을 열려면 설정 > 사용자 프로파일을 클릭하십시오.

상위 주제: [웹 관리 콘솔 정보](#)

## 로컬 스테이징 데이터베이스

로컬 스테이징 데이터베이스 주제는 웹 관리 콘솔에서 로컬 스테이징 데이터베이스 사용에 관한 정보를 제공합니다.

- [로컬 스테이징 데이터베이스 정보](#)
- [로컬 스테이징 데이터베이스 시작](#)
- [로컬 스테이징 데이터베이스 중지](#)

## 로컬 스테이징 데이터베이스 정보

Studio에서, 데이터를 정리하고 빨리 대상 시스템으로 마이그레이션하기 위해 소스 시스템의 데이터를 정렬하고 병합하는 데이터 품질 활동으로 프로젝트를 빌드할 수 있습니다. 프로젝트의 데이터 품질 활동이 소스 시스템의 데이터를 반복적으로 처리("좋은" 데이터와 "잘못된" 데이터를 정렬)할 때, 통합 어플라이언스는 로컬 스테이징 데이터베이스에 데이터를 저장할 수 있습니다.

WMC에서 로컬 데이터베이스 테이블 및 검색 테이블을 보고 필요할 때 처리된 데이터에 추가 변경을 작성할 수 있습니다. 로컬 스테이징 데이터베이스의 테이블을 보고 조작을 수행하기 위한 적절한 권한이 있어야 합니다.

중요사항: 로컬 스테이징 데이터베이스는 WMC에서 데이터베이스 뷰어를 볼 수 있기 전에 시작되어야 합니다.

## 데이터베이스 뷰어 분할창

데이터베이스 뷰어는 다음의 세 분할창으로 구성됩니다.

### 데이터베이스 오브젝트 분할창

데이터베이스 뷰어의 왼쪽에 위치하는 이 분할창은 필드 및 행을 포함하여 로컬 스테이징 데이터베이스의 모든 테이블을 표시합니다.

### 조회 분할창

데이터베이스 뷰어의 우측 상단에 위치하는 이 분할창은 로컬 스테이징 데이터베이스에 대한 조회를 유효성 검증하고 제출하기 위한 작업공간을 제공합니다. 각 조회를 별도의 탭에서 관리할 수 있습니다. 각 탭에서 다음 조작을 수행할 수 있습니다.

- 조회 유효성 검증
- 조회 제출
- 조회 지우기
- 탭 닫기

### 요약 분할창

데이터베이스 뷰어의 우측 하단에 위치하는 이 분할창은 결과 및 히스토리의 두 탭을 포함합니다.

- **결과 탭** - 조회에서 리턴되는 행의 요약을 제공합니다.
- **히스토리 탭** - 로컬 스테이징 데이터베이스에서 발생한 이벤트의 로그를 제공합니다. 시간소인이 로그인된 각 이벤트를 표시합니다. 이벤트의 로그는 WMC가 열린 동안 지속됩니다. WMC를 닫은 후에는 히스토리 탭이



지워집니다.

상위 주제: 로컬 스테이징 데이터베이스

## 로컬 스테이징 데이터베이스 시작

### 이 태스크 정보

WMC에서 로컬 스테이징 데이터베이스를 시작 및 중지할 수 있습니다. 데이터를 보거나 업데이트하려면 스테이징 데이터베이스를 시작해야 합니다. 기본적으로, 스테이징 데이터베이스는 중지된 상태에 있습니다. 중지된 상태에서는 스테이징 데이터베이스를 보거나 업데이트할 수 없습니다. 데이터베이스를 중지할 때 모든 사용자에게 대한 모든 세션도 중지됩니다.

기본 제공되는 관리자 그룹의 일부가 됨으로써 부여되는 관리자 권한을 갖는 사용자만 로컬 스테이징 데이터베이스를 시작, 중지 및 조작을 수행할 수 있습니다. 공개자 권한을 갖는 사용자는 로컬 스테이징 데이터베이스가 이미 관리자 권한을 갖는 사용자에게 의해 시작된 경우에만 데이터베이스를 볼 수 있습니다. 로컬 스테이징 데이터베이스가 시작되지 않은 경우, 공개자 권한을 갖는 사용자는 데이터베이스를 볼 수 없습니다. 기본 제공 사용자 그룹의 일부이거나 LDAP 서버에서 작성된 WMC 로그인 신임 정보를 갖는 사용자는 로컬 스테이징 데이터베이스에 액세스할 수 없습니다.

### 프로시저

1. 탐색 분할창에서 시스템 > 스테이징 DB를 선택하십시오. 스테이징 DB 페이지가 표시됩니다.
2. 데이터베이스 시작을 클릭하십시오.

상위 주제: 로컬 스테이징 데이터베이스

## 로컬 스테이징 데이터베이스 중지

### 이 태스크 정보

WMC에서 로컬 스테이징 데이터베이스를 시작 및 중지할 수 있습니다. 데이터를 보거나 업데이트하려면 스테이징 데이터베이스를 시작해야 합니다. 기본적으로, 스테이징 데이터베이스는 중지된 상태에 있습니다. 중지된 상태에서는, 스테이징 데이터베이스를 보거나 업데이트할 수 없습니다. 데이터베이스를 중지할 때 모든 사용자에게 대한 모든 세션도 중지됩니다.

기본 제공되는 관리자 그룹의 일부가 됨으로써 부여되는 관리자 권한을 갖는 사용자만 로컬 스테이징 데이터베이스를 시작, 중지 및 조작을 수행할 수 있습니다. 공개자 권한을 갖는 사용자는 로컬 스테이징 데이터베이스가 이미 관리자 권한을 갖는 사용자에게 의해 시작된 경우에만 데이터베이스를 볼 수 있습니다. 로컬 스테이징 데이터베이스가 시작되지 않은 경우, 공개자 권한을 갖는 사용자는 데이터베이스를 볼 수 없습니다. 기본 제공 사용자 그룹의 일부이거나 LDAP 서버에서 작성된 WMC 로그인 신임 정보를 갖는 사용자는 로컬 스테이징 데이터베이스에 액세스할 수 없습니다.

### 프로시저

1. 탐색 분할창에서 시스템 > 스테이징 DB를 선택하십시오. 스테이징 DB가 표시됩니다.
2. 데이터베이스 중지를 클릭하십시오.

상위 주제: 로컬 스테이징 데이터베이스

## 메모리 관리 우수 사례

건전한 런타임 환경을 유지하고 메모리 부족 오류를 피하기 위한 메모리 관리 우수 사례를 약속합니다.

통합 어플라이언스는 오케스트레이션 작업을 실행하기 위한 메모리 풀을 확보합니다. 이 메모리 풀 관리가 건전한 런타임 환경을 유지하기 위한 핵심입니다.

사용되는 메모리의 양과 가비지 콜렉션 사이클 사이에는 직접적인 관계가 있습니다. 가비지 콜렉션은 완료된 작업이 보유하는 메모리 및 변수 데이터를 다시 모든 오케스트레이션 작업에 의해 사용된 메모리의 풀로 리턴하는 프로세스입니다. 이 가비지 콜렉션 프로세스는 통합 어플라이언스가 새 오케스트레이션 작업이 사용할 수 있는 사용 가능한 메모리의 일정한 공급을 갖도록 보장합니다.

가비지 콜렉션(GC)은 오케스트레이션 작업 성능에 대한 영향 없이 백그라운드에서 실행하는 연속 프로세스입니다. 그러나 메모리가 위험 임계값에 도달할 때 전체 가비지 콜렉션으로 알려진 더 깊이있는 프로세스가 발생합니다. 전체 가비지 콜렉션 프로세스는 모든 실행 중인 작업을 휴면 상태로 만들고 사용되지 않는 메모리를 다시 풀로 리턴합니다. 모든 오케스트레이션 작업이 전체 가비지 콜렉션 동안 중지하기 때문에 빈번한 전체 가비지 콜렉션은 오케스트레이션 성능에 영향을 미칠 수 있습니다.

자원 이용률 그래프의 GC 활동 값이 정기적으로 급등할 때, 통합 어플라이언스가 더 빈번한 전체 가비지 콜렉션 사이클을 시작하여 관리하려고 시도 중인 메모리에 대한 높은 수요가 있을 수 있습니다. 그러나 높은 메모리 사용량이 반드시 전체 가비지 콜렉션 사이클의 증가를 의미하지는 않습니다. 예를 들어, 짧게 실행하는 오케스트레이션의 많은 볼륨은 더 큰 백분율의 메모리가 사용되게 합니다. 그러나 끊임없이 백그라운드에서 실행하는 가비지 콜렉션 사이클은 아마도 전체 메모리 사용량이 전체 가비지 콜렉션을 트리거하기에 충분히 높지 않도록 충분히 빨리 메모리를 다시 메모리의 풀로 리턴합니다. 전체 가비지 콜렉션은 모든 오케스트레이션을 중지하므로, 빈번한 전체 가비지 콜렉션은 오케스트레이션 성능에 영향을 줄 수 있습니다.

높은 메모리 사용량이 빈번한 전체 가비지 콜렉션이 되는 시나리오는 오케스트레이션 유형의 혼합을 포함합니다. 예를 들어 대형 오브젝트를 처리하는 수많은 변수를 갖는 복수의 비지속적이고 장기 실행하는 오케스트레이션을 갖습니다. 이런 유형의 오케스트레이션은 메모리 풀로 빨리 리턴될 수 없는 많은 양의 메모리를 이용하며 연결합니다.

참고: 이런 유형의 오케스트레이션은 Cast Iron®에서 권장되지 않습니다.

다음 표는 메모리 사용량을 관리하고 건전한 런타임 환경을 유지하는 데 도움이 되는 우수 사례의 목록을 제공합니다.

표 1. 메모리 관리 우수 사례

우수 사례 원리	설명
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우수 사례 원리	설명
<p>로깅 레벨을 줄이십시오.</p>	<p>더 상세한 로깅은 데이터를 처리하고 저장하기 위한 더 많은 메모리가 필요하며 통합 어플라이언스 디스크에서 I/O 로드를 늘리므로 성능을 저하시킬 수 있습니다. 상세한 로깅 레벨은 디버깅 목적을 위해서만 권장되며 많은 볼륨의 데이터가 처리되는 프로덕션 환경의 경우에는 권장되지 않습니다.</p> <p>통합 어플라이언스는 시스템 로그와 오케스트레이션 작업 로그를 생성합니다.</p> <p>Cast Iron은 시스템 로그에서 추적되는 모든 컴포넌트에 대해 시스템 로그 레벨을 "경고"로 설정할 것을 권장합니다.</p> <ul style="list-style-type: none"> <li>• 하드웨어</li> <li>• 자원</li> <li>• 네트워크</li> <li>• 보안</li> <li>• 오케스트레이션</li> <li>• 배치</li> </ul> <p>다양한 시스템 컴포넌트에 의해 생성되는 경고 수가 높은 경우 메모리 사용량이 문제가 될 수 있습니다. 경고가 생성되도록 유발하고 있는 문제점을 해결하거나 시스템 로깅 레벨을 "오류"로 늘리십시오. 시스템 로그 레벨 설정에 대한 자세한 정보는 <a href="#">시스템 로그 설정 지정</a>을 참조하십시오.</p> <p>오케스트레이션 로깅 레벨은 프로젝트의 각 오케스트레이션에 대해 지정됩니다. Cast Iron은 통합 어플라이언스의 모든 프로젝트 아래의 모든 오케스트레이션에 대해 로깅 레벨을 "오류 값"으로 설정할 것을 권장합니다. 오케스트레이션 로그 레벨 설정에 대한 자세한 정보는 <a href="#">오케스트레이션 설정 편집</a>을 참조하십시오.</p>
<p>지속성이 모든 오케스트레이션에 대해 사용 가능한지 확인하십시오.</p>	<p>기본적으로 지속성이 오케스트레이션에 대해 사용으로 설정되고 변수 데이터가 메모리 대신 디스크에 기록됩니다. 지속성을 사용으로 설정하면 런타임 중에 결함이 발생하는 경우 특정 시점 데이터 복구 이점이 추가됩니다.</p> <p>오케스트레이션에 대해 지속성을 사용 안함으로 설정하는 경우 데이터는 메모리에 저장됩니다. 지속성 사용 안함이 성능을 개선할 수 있지만, 실행 중인 작업의 수가 늘어날 때 메모리 부족 가능성도 늘어납니다. 메모리가 부족할 위험이 매우 높기 때문에, 지속성을 사용 안함으로 설정할 것을 선택할 때 각별히 주의하여 진행하십시오.</p> <p>참고: 지속성을 끄면 통합 어플라이언스가 동시에 실행할 수 있는 오케스트레이션 작업의 수가 줄어듭니다. 한계는 통합 어플라이언스에서 사용 가능한 메모리에 의해 설정됩니다.</p>
<p>오케스트레이션 작업을 엇갈리게 하기 위해 웹 관리 콘솔(WMC) 및 Studio에서 사용 가능한 스케줄링 기능을 사용하십시오.</p>	<p>다른 시간에 시작하거나 피크가 아닌 시간 동안 실행하도록 메모리 집약적 작업을 스케줄하여 메모리의 일부 로드를 경감시키고 전체 가비지 컬렉션의 수를 줄이고 성능을 잠재적으로 개선합니다.</p> <p>Studio에서는 작업 스케줄 활동을 사용하거나 오케스트레이션에서 활동에 대한 폴링 간격을 구성하여 오케스트레이션 작업을 엇갈리게 하고 자원 이용률을 극대화할 수 있습니다. 또한 통합 어플라이언스가 오케스트레이션 작업을 실행할 시기를 제어하기 위해 WMC에서 스케줄을 작성할 수도 있습니다. 주어진 오케스트레이션 작업의 평균 실행 시간을 측정하여 작업 스케줄을 최적화할 수 있게 하십시오.</p>
<p>오케스트레이션에서 사용되는 변수의 수를 최소화하십시오.</p>	<p>오케스트레이션에서 더 많은 변수를 사용할수록, 데이터를 저장하기 위해 더 많은 메모리가 필요합니다. 이것은 다시 가비지 컬렉션 사이클의 수를 늘리고 성능에 영향을 줄 수 있습니다. 오케스트레이션을 검토하여 사용된 변수의 수를 줄일 수 있는지 확인하십시오.</p>

우수 사례 원리	설명
동시에 실행 중인 작업의 수를 줄이십시오.	<p>WMC에서 오케스트레이션에 대해 동시에 실행 중인 작업의 최대 수를 지정할 수 있습니다. 동시에 실행 중인 오케스트레이션의 수가 늘어날 때, 메모리 사용 백분율도 늘어납니다. 메모리가 과부하가 걸리고 있음을 알게 되는 경우 동시에 실행하는 작업의 수를 줄이십시오.</p> <p>동시에 실행하는 작업의 수를 줄이는 효과는 특히 많은 수의 변수를 포함하는 비지속적 장기 실행 오케스트레이션 작업에 영향을 미칩니다.</p> <p>참고: 이런 유형의 오케스트레이션은 Cast Iron에서 권장되지 않습니다.</p>
메모리에서 75% 로드를 초과하지 마십시오.	<p>WMC 자원 이용률 그래프에서 사용되는 메모리의 백분율을 추적할 수 있습니다. 사용되는 메모리의 백분율이 약 75% 이하일 때 통합 어플라이언스는 추가 오케스트레이션을 처리할 용량을 갖고 있습니다. 사용되는 메모리의 백분율이 약 75%를 초과할 때, 전체 가비지 콜렉션의 수가 늘어남에 따라 성능 문제가 발생할 수 있습니다.</p>
전체 가비지 콜렉션 사이클을 제한하십시오.	<p>WMC 자원 이용률 그래프에서 GC 활동 값을 사용하여 전체 가비지 콜렉션의 백분율을 추적할 수 있습니다. 이 백분율이 50%를 초과할 때 오케스트레이션 작업의 처리량의 축소를 의식할 수 있습니다. 메모리 관리 우수 사례를 구현하여 메모리 사용량을 줄이고 전체 가비지 콜렉션 사이클의 발생 가능성을 줄이십시오.</p>
환경에 추가 통합 어플라이언스를 추가하십시오.	<p>우수 사례 원리를 구현한 후, 메모리 사용량이 계속 높은 경우 사용자 환경에 다른 통합 어플라이언스를 추가할 시간일 수 있습니다.</p>

## 통합 어플라이언스 관리

통합 어플라이언스 관리 주제는 써드파티 라이브러리 다운로드, 저장소 가져오기 및 내보내기뿐 아니라 웹 관리 콘솔에서 명령 설명 및 사용에 관한 정보를 제공합니다.

- [커넥터 정보](#)
- [시스템 요약](#)
- [SAP 라이브러리 파일 다운로드 및 설치](#)
- [SAP 커넥터에 대한 SNC\(Secure Network Communications\) 구성](#)  
Cast Iron 버전 6.3.0.2 이상 버전에서는 SNC 기능을 사용하여 SAP 커넥터를 통해 SAP에 연결할 수 있습니다.
- [명령 실행](#)
- [저장소 내보내기](#)
- [저장소 가져오기](#)
- [다른 공급업체의 라이브러리 설치](#)
- [정지 시간 스케줄링](#)
- [네트워크 설정 지정](#)
- [시스템 명령 실행](#)
- [Dell 통합 어플라이언스 업그레이드](#)  
이 섹션은 WMC를 사용하여 Dell 통합 어플라이언스로 부 버전 및 패치 릴리스 업로드에 대한 정보를 제공합니다. 어플라이언스를 업그레이드할 때, Cast Iron® 운영 체제의 최신 기능에 액세스할 수 있습니다. 이 업그레이드 프로세스는 필요한 파일만 대체하거나 추가하며 어떤 데이터도 영구 삭제하지 않습니다.
- [DataPower 통합 어플라이언스 업그레이드](#)  
이 섹션은 WMC를 사용하여 DataPower Cast Iron XH40 통합 어플라이언스로 부 버전 및 패치 릴리스 업로드에 대한 정보를 제공합니다. 어플라이언스를 업그레이드할 때, Cast Iron 운영 체제의 최신 기능에 액세스할 수 있습니다. 업그레이드 프로세스는 필요한 파일만 대체하거나 추가하며 어떤 데이터도 영구 삭제하지 않습니다.
- [네트워크 경로에 대한 작업](#)  
통합 어플라이언스에 대한 네트워크 경로를 추가하고 삭제할 수 있습니다.

## 커넥터 정보

커넥터 페이지는 통합 어플라이언스에 설치된 모든 커넥터를 표시합니다. 커넥터 페이지에서 설치된 각 커넥터의 버전 번호와 각 커넥터에 대한 라이선싱 상태를 볼 수 있습니다. 통합 어플라이언스는 올바른 커넥터 라이선스를 갖는 엔드포인트를 포함하는 구성 프로젝트만 처리할 수 있습니다. 커넥터 페이지를 열려면 탐색 페이지에서 시스템 > 커넥터를 선택하십시오.

일부 커넥터는 사용자가 구성 프로젝트를 배치할 수 있기 전에 추가 라이브러리를 설치해야 합니다. 이들 추가 커넥터 라이브러리를 관리하려면 커넥터 페이지에서 라이브러리 업데이트 링크를 클릭하십시오.

상위 주제: [통합 어플라이언스 관리](#)

## 시스템 요약

시스템 요약 페이지는 통합 어플라이언스에 관한 정보를 제공합니다. 시스템 요약 페이지에 액세스하려면 탐색 분할창에서 시스템 > 요약을 선택하십시오.

시스템 정보	설명
모델	통합 어플라이언스 하드웨어 모델을 표시합니다.
버전	현재 통합 어플라이언스에서 실행 중인 WebSphere® Cast Iron® 운영 체제의 버전을 표시합니다.
일련 번호	통합 어플라이언스 일련 번호를 표시합니다.

상위 주제: [통합 어플라이언스 관리](#)

## SAP 라이브러리 파일 다운로드 및 설치

### 시작하기 전에

파일을 다운로드하기 위해 SAP 지원 포털에 들어가려면 SAP 사용자 ID와 비밀번호가 있어야 합니다.

### 이 태스크 정보

SAP 시스템에 연결하려면 개발 환경에 SAP 라이브러리를 설치해야 합니다.

참고:

임의의 시스템 디렉토리에 `librfccm.so` 및 `libsapjcorfc.so` 파일의 이전 버전이 있는 경우 해당 파일을 제거해야 합니다. 어플라이언스는 SAP JCo 릴리스 3.0.x와 함께 제공되는 `libsapjco3.so` 파일을 사용해야 합니다. Cast Iron® 버전 7.0 이상 버전에 대해 64비트 SAP JCo 라이브러리를 사용해야 하며, Cast Iron 버전 6.4 이하 버전의 경우 32비트 SAP JCo 라이브러리를 사용해야 합니다.

### 프로시저

- 다음 SAP 컴포넌트를 위한 다음 Zip 파일을 얻기 위해 SAP 기술 지원에 접속하십시오.
  - SAP 32/64비트 JCo 버전 3.0.14 - Linux 32/64비트 버전.
  - SAP Java™ IDoc 클래스 라이브러리 3.0.12.

2. SAP 기술 지원에서 받은 패키지의 콘텐츠의 압축을 풀고 로컬 폴더에 복사하십시오.
3. 관리 콘솔에 로그인하고 시스템 > 커넥터를 선택하십시오. 커넥터 페이지가 표시됩니다.
4. 라이브러리 업데이트를 클릭하십시오. 커넥터 라이브러리 업데이트 창이 표시됩니다.
5. 커넥터 열에서 SAP를 선택하십시오.
6. 더하기(+) 단추를 클릭하고 방금 다운로드한 모든 JAR 파일을 가져올 때까지 다음 하위 단계를 반복하십시오.
  - a. 방금 다운로드한 JAR 파일(`sapjco3.jar`, `sapidoc3.jar`, `libsapjco3.so`) 중 하나를 찾으십시오.
  - b. 열기를 클릭하여 JAR 파일을 가져오십시오. 파일이 추가할 파일 열에 표시됩니다.
7. 업데이트를 클릭하십시오.

추가할 파일 열에 표시되는 파일은 업데이트를 클릭할 때까지 커밋되지 않습니다. 업데이트를 클릭하기 전에 재설정을 클릭하면 관리 콘솔은 사용자가 업로드한 파일을 추가하지 않습니다. 업데이트를 클릭하고 추가된 파일을 커밋하기 전에 관리 콘솔이 제한시간 초과하는 경우 마지막 두 단계를 반복하십시오.

## 결과

이제 SAP 프로젝트를 실행할 수 있습니다.

상위 주제: [통합 어플라이언스 관리](#)

## SAP 커넥터에 대한 SNC(Secure Network Communications) 구성

Cast Iron 버전 6.3.0.2 이상 버전에서는 SNC 기능을 사용하여 SAP 커넥터를 통해 SAP에 연결할 수 있습니다.

### 프로시저

1. WMC를 사용하여 시스템 라이브러리의 SAP JCo JAR이 업로드되는 것과 동일한 위치에 `libsapcrypto.so`를 업로드하십시오(자세한 정보는 [SAP 라이브러리 파일 다운로드 및 설치](#)의 내용을 참조).
2. SAP crypto 디렉토리를 시스템의 경로 변수에 추가하고 시스템 신임 정보를 `.pse` 파일에 추가하려면 셸 명령을 실행하십시오.

참고: 셸 명령은 IBM WebSphere Cast Iron L2 또는 L3 지원 엔지니어에 의해서만 실행될 수 있으며 필요한 경우 IBM 지원 센터와 `.pse` 파일을 공유할 수 있습니다.

상위 주제: [통합 어플라이언스 관리](#)

## 명령 실행

### 이 태스크 정보

통합 어플라이언스에 대해 시스템 제어 명령을 실행하려면 다음을 수행하십시오.

### 프로시저

1. 탐색 분할창에서 시스템 > 명령을 선택하십시오. 시스템 명령 페이지가 표시됩니다.
2. 명령 선택 드롭 다운 목록에서 명령을 선택하십시오. 드롭 다운 화살표를 클릭하여 명령 세부사항을 볼 수 있습니다.
3. 이동을 클릭하십시오.

상위 주제: [통합 어플라이언스 관리](#)

## 시스템 제어 명령

독립형 통합 어플라이언스 또는 고가용성(HA) 쌍에 대해 다음 명령을 실행할 수 있습니다. HA 특정 명령에 관한 자세한 정보는 고가용성 쌍에 대한 작업을 참조하십시오.

시스템 제어 명령	설명
Remove Job History	통합 어플라이언스에서 모든 작업 히스토리를 제거합니다.
Remove Projects & Configurations	통합 어플라이언스에서 모든 프로젝트, 오케스트레이션 및 프로젝트 구성을 제거합니다.
Remove All Jobs in Progress	현재 실행 중인 프로젝트에 대한 모든 데이터를 제거합니다.
Download Postmortem	Postmortem 파일을 생성하여 사용자가 지정하는 위치로 다운로드합니다.
Restart	통합 어플라이언스를 중지하고 다시 시작합니다.
Reboot	모든 서비스를 시스템 종료한 후 통합 어플라이언스를 다시 부팅합니다.

## 저장소 내보내기

### 이 태스크 정보

통합 어플라이언스를 업그레이드하기 전에 백업을 작성하려면 프로젝트 저장소를 내보내십시오. 네트워크 구성, 사용자 및 그룹, 라이선스, 작업 로그 매개변수, 로그 레벨, 알림, 정지 시간 규칙, 비밀번호를 포함하는 모든 프로젝트 구성 및 사용자 설정을 WMC에서 다른 위치로 내보낼 수 있습니다.

통합 어플라이언스 시스템 로그는 저장소를 내보낼 때 내보내지지 않습니다. 따라서 저장소의 이전 버전을 가져오는 경우 시스템 로그는 여전히 새 저장소를 가져오기 전에 발생한 이벤트를 포함합니다.

실행 중인 프로젝트 구성을 갖는 저장소를 내보낼 수 있습니다. 그러나, 이 저장소를 가져올 때 프로젝트 구성은 모두 배치되지 않은 상태에 있습니다.

### 프로시저

1. 탐색 분할창에서 저장소 > 가져오기/내보내기를 선택하십시오. 저장소 가져오기/내보내기 대화 상자가 표시됩니다.
2. 내보내기를 클릭하십시오. 다른 이름으로 저장 창이 표시됩니다.
3. 내보낸 저장소를 저장하려는 위치를 지정하십시오.
4. 저장을 클릭하십시오. WMC가 저장소의 사본을 .tar.gz 파일로서 내보냅니다.

**상위 주제:** [통합 어플라이언스 관리](#)

## 저장소 가져오기

### 이 태스크 정보

저장소를 가져올 때 WMC가 기존 저장소에 보유한 일부 정보를 삭제합니다. 정확하게 어떤 정보가 삭제되는가는 이 주제에서 설명하는 대로 저장소를 가져올 때 선택하는 옵션에 따라 다릅니다. 그러나 시스템 로그는 삭제되지 않습니다. 그러므로 잠재적으로 이전 저장소의 시스템 로그 항목을 볼 수 있습니다. 저장소를 가져온 후에는 이전 저장소로 롤백할 수 없습니다. 그러므로, 다른 저장소를 가져오기 전에 기존 저장소를 내보낼 것을 권장합니다.

저장소를 가져올 수 있기 전에 WMC의 모든 프로젝트 구성을 중지하고 배치 취소해야 합니다. WMC가 저장소를 성공적으로 가져온 후 모든 프로젝트 구성은 배치되지 않은 상태에 있습니다.

## 프로시저

1. 탐색 분할창에서 저장소 > 구성을 선택하십시오. 프로젝트 구성 페이지가 표시됩니다.
2. 구성 필터 목록에서 모두를 선택하십시오. 모든 프로젝트 구성이 표시됩니다.
3. 모든 프로젝트 구성을 중지하고 배치 취소하십시오.
4. 탐색 분할창에서 저장소 > 가져오기/내보내기를 선택하십시오. 저장소 가져오기/내보내기 대화 상자가 표시됩니다.
5. 저장소 파일 필드에서 가져오려는 저장소에 대한 경로를 지정하십시오.
6. 가져오기 옵션을 선택하십시오.
  - 프로젝트 및 사용자 설정  
사용자가 선택하는 저장소의 모든 콘텐츠를 가져옵니다. 모든 프로젝트를 배치되지 않은 상태로 가져옵니다.
  - 프로젝트 설정만  
사용자가 선택하는 저장소 파일에서 프로젝트, 구성, 알림 정책, 작업 로그를 가져옵니다. 모든 프로젝트를 배치되지 않은 상태로 가져옵니다.  
참고: 가져오기 이전에 존재하는 모든 프로젝트, 구성, 알림 정책과 작업 로그는 삭제됩니다.
  - 사용자 설정만  
사용자가 선택하는 저장소 파일에서 사용자 설정만 가져옵니다. 사용자 설정 정보에는 네트워크 구성, 사용자 및 그룹, 라이선스, 작업 로그 필터 매개변수, 시스템 로그 레벨, 정지 시간 규칙 및 비밀번호가 포함됩니다.
7. 가져오기를 클릭하십시오. 경고가 표시됩니다.
8. 가져오기를 클릭하여 계속하기 원함을 확인하십시오.

## 결과

통합 어플라이언스가 저장소를 가져오고 통합 어플라이언스를 다시 시작합니다. 가져오기가 완료될 때 WMC 로그인 창이 표시됩니다.

상위 주제: [통합 어플라이언스 관리](#)

## 다른 공급업체의 라이브러리 설치

### 이 태스크 정보

통합 프로젝트가 추가 라이브러리가 필요한 커넥터를 사용하는 경우, 프로젝트 구성을 배치하기 전에 추가 라이브러리를 설치해야 합니다. 추가 라이브러리를 설치하기 전에 프로젝트 구성을 배치하면 런타임 오류가 생성됩니다. 공급업체 라이브러리가 필요한 커넥터의 전체 목록에 대해서는 커넥터 라이브러리 업데이트 페이지를 여십시오. 다음 프로시저를 참조하십시오.

다중 환경 테넌트를 갖는 경우 추가 라이브러리가 필요한 커넥터로 프로젝트 구성을 배치하는 각 환경에서 공급업체 라이브러리를 설치해야 합니다.

예를 들어, 배치, 스테이징 및 프로덕션의 세 환경을 갖는 테넌트가 있습니다. 개발 및 프로덕션 환경에서 SAP 엔드포인트에 대한 프로젝트 구성을 공개합니다. 프로젝트 구성을 배치할 수 있기 전에 개발 및 프로덕션 환경 모두에 추가 SAP 라이브러리를 설치해야 합니다.



1. 환경 탭을 클릭하십시오.
2. 시스템 > 업그레이드 > 커넥터 라이브러리 업그레이드를 선택하여 커넥터 라이브러리 업데이트 페이지를 여십시오.
3. 커넥터 열에서 추가 파일을 설치하려는 커넥터를 선택하십시오.

이미 설치된 모든 파일이 설치된 파일 열에 표시됩니다.

4. 더하기(+) 아이콘을 클릭하고 업로드할 라이브러리 파일을 선택하십시오. Linux 시스템에서 유효한 파일은 .jar 또는 .so이고, Windows 시스템에서 유효한 파일은 .jar 또는 .dll입니다. 사용자가 선택하는 파일이 추가할 파일 열에 표시됩니다.
5. 업데이트를 클릭하십시오.

추가할 파일 열에 표시되는 파일은 업데이트를 클릭할 때까지 커밋되지 않습니다. 업데이트를 클릭하기 전에 재설정을 클릭하면 WMC는 사용자가 업로드한 파일을 추가하지 않습니다. 업데이트를 클릭하고 추가된 파일을 커밋하기 전에 WMC가 제한시간 초과하는 경우 마지막 두 단계를 반복하십시오.

상위 주제: [통합 어플라이언스 관리](#)

## 정지 시간 스케줄링

### 이 태스크 정보

정지 시간을 스케줄하면 환경 또는 관련 시스템에 유지보수를 수행할 수 있습니다. 지정된 지속 기간 동안 해당 프로젝트 구성의 모든 사용 가능한 오케스트레이션 작업을 중지 또는 일시중단하는 프로젝트 구성에 대한 정지 시간 규칙을 작성할 수 있습니다. 정지 시간 규칙을 작성하거나 편집하기 위해 프로젝트 구성이 배치 취소될 필요는 없습니다. 정지 시간 규칙은 한 번 발생하거나 지정된 간격으로 반복할 수 있습니다. 정지 시간 규칙을 작성, 편집 또는 삭제하려면 관리자 또는 공개자 권한이 있어야 합니다.

기본적으로, 정지 시간 규칙은 GMT 시간대로 저장됩니다. 관리자가 시스템 시계를 GMT에서 다른 시간대로 수정하는 경우, 정지 시간 규칙은 동일한 절대 시간에 실행됩니다. 예를 들어, GMT 오후 4:00 - 4:15 사이에 모든 오케스트레이션을 중지하는 정지 시간 규칙을 작성합니다. 관리자가 시스템 시계를 PDT(태평양 연안 표준시)로 표시하도록 수정합니다. 정지 시간 규칙은 PDT 오전 8:00 - 8:15 사이에 모든 오케스트레이션을 중지하도록 수정됩니다. PDT 오후 4:00 - 4:15에 정지 시간 규칙을 실행하려면 정지 시간 규칙을 편집해야 합니다. 일광절약시간에 의해 유발되는 시간 차이는 자동으로 조정됩니다.

정지 시간 규칙이 발생하도록 스케줄될 때 환경이 오프라인인 경우, 모든 실행되지 않은 규칙이 식별되고 환경이 다시 온라인이 될 때 적절한 순서로 실행됩니다. 모든 백로그된 정지 시간 규칙이 실행된 후 프로젝트 구성의 배치 상태를 수정할 제어를 다시 얻습니다.

## 프로시저

1. 탐색 분할창에서 저장소 > 구성을 선택하십시오. 프로젝트 구성 페이지가 표시됩니다.
2. 작업하려는 정지 시간 규칙을 포함하는 프로젝트 구성을 클릭하십시오. 구성 세부사항 페이지가 표시됩니다.
3. 스케줄된 정지 시간 섹션에서 새 규칙을 클릭하십시오. 새 정지 시간 규칙 대화 상자가 표시됩니다.
4. 드롭 다운 목록에서 다음 조치 중 하나를 선택하십시오.
  - **중지(작업 완료 허용)** - 지정된 시간에 현재 작업이 처리를 완료하도록 허용하면서 임의의 새 오케스트레이션 작업이 시작하지 못하게 합니다. 이 조치는 완료 후 중지를 용이하게 합니다.
  - **중지(실행 중인 작업 취소)** - 지정된 시간에 임의의 새 오케스트레이션 작업이 시작하지 못하게 막고 현재 실행 중인 모든 작업을 중지합니다. 이 조치는 모든 작업을 즉시 중지합니다.

- 일시중단 - 지정된 시간에 임의의 새 오케스트레이션이 시작하지 못하게 막고 현재 실행 중인 모든 작업을 일시정지합니다. 스케줄된 정지 시간의 종료 시에 런타임이 일시중단된 지점부터 일시중단된 작업을 처리합니다.
- 5. 정지 시간 시작 및 정지 시간 종료에 대한 날짜 및 시간을 지정하여 정지 시간의 기간을 지정하십시오.
- 6. (선택사항) 반복 정지 시간 규칙을 작성하려면 반복 옵션을 선택하십시오.
  - a. 반복 간격(숫자 값)을 지정하십시오.
  - b. 드롭 다운 목록에서 빈도(일, 주, 월 또는 년)를 지정하십시오.
- 7. 저장을 클릭하십시오.

## 결과

새 정지 시간 규칙이 스케줄된 정지 시간 섹션에 표시되고 스케줄된 정지 시간 카운터가 하나씩 증가합니다.

상위 주제: [통합 어플라이언스 관리](#)

## 정지 시간 규칙 편집

### 프로시저

1. 탐색 분할창에서 저장소 > 구성을 선택하십시오. 프로젝트 구성이 표시됩니다.
2. 작업하려는 정지 시간 규칙을 포함하는 프로젝트 구성을 클릭하십시오. 구성 세부사항 페이지가 표시됩니다.
3. 스케줄된 정지 시간 섹션에서 편집할 정지 시간 규칙을 클릭하십시오. 정지 시간 규칙 편집이 표시됩니다.
4. 드롭 다운 목록에서 다음 조치 중 하나를 선택하십시오.
  - 중지(작업 완료 허용) - 지정된 시간에 현재 작업이 처리를 완료하도록 허용하면서 임의의 새 오케스트레이션 작업이 시작하지 못하게 합니다. 이 조치는 완료 후 중지를 용이하게 합니다.
  - 중지(실행 중인 작업 취소) - 지정된 시간에 임의의 새 오케스트레이션 작업이 시작하지 못하게 막고 현재 실행 중인 모든 작업을 중지합니다. 이 조치는 모든 작업을 즉시 중지합니다.
  - 일시중단 - 지정된 시간에 임의의 새 오케스트레이션이 시작하지 못하게 막고 현재 실행 중인 모든 작업을 일시정지합니다. 스케줄된 정지 시간의 종료 시에 런타임이 일시중단된 지점부터 일시중단된 작업을 처리합니다.
5. 정지 시간 시작 및 정지 시간 종료에 대한 날짜 및 시간을 지정하여 정지 시간의 기간을 지정하십시오.
6. 옵션: 반복 정지 시간 규칙을 작성하려면 반복 옵션을 선택하십시오.
  - a. 반복 간격(숫자 값)을 지정하십시오.
  - b. 드롭 다운 목록에서 빈도(일, 주, 월 또는 년)를 지정하십시오.
7. 저장을 클릭하십시오.

## 정지 시간 규칙 삭제

### 프로시저

1. 탐색 분할창에서 저장소 > > 구성을 선택하십시오. 프로젝트 구성 페이지가 표시됩니다.
2. 작업하려는 정지 시간 규칙을 포함하는 프로젝트 구성을 클릭하십시오. 구성 세부사항 페이지가 표시됩니다.
3. 스케줄된 정지 시간 섹션에서 삭제할 정지 시간 규칙을 선택하십시오. 규칙 삭제 확인 창이 표시됩니다.
4. 예를 클릭하십시오.

## 결과

정지 시간 규칙이 더 이상 표시되지 않습니다.

# 네트워크 설정 지정

## 이 태스크 정보

네트워크는 네트워크 설정 페이지를 엽니다.

iA300은 단 하나의 물리적 포트를 갖지만, 네트워크 구성 목적을 위해 데이터 네트워킹 및 관리 네트워킹에 대해 별도의 IP 주소를 지정합니다. iA1000, iA1500, iA2000, iA2500 및 iA3000은 두 개의 물리적 포트를 갖습니다.

네트워크 구성을 지정하려면 관리자 권한이 있어야 합니다. 기본적으로, 통합 어플라이언스는 DHCP를 사용하여 네트워크 설정을 구성합니다. DHCP를 사용하여 네트워크 설정을 구성할 것을 선택할 때, WMC는 네트워크 구성 페이지에 해당 설정을 표시합니다. DHCP 사용 옵션을 지우거나 수동 옵션을 선택하여 이들 설정을 편집할 수 있습니다.

참고: DHCP를 사용하여 네트워크 설정을 구성하면 시작 시간이 더 길어질 수 있습니다. 더 빠른 시작 시간을 위해서는 수동 옵션을 선택하고 정적 값을 지정하십시오.

## 프로시저

1. 탐색 분할창에서 네트워크를 선택하십시오. 네트워크 설정 페이지가 표시됩니다.
2. 편집을 클릭하십시오. 네트워크 설정 편집 마법사가 표시됩니다.
3. 데이터 네트워크 섹션에서 DHCP 사용 옵션을 선택하십시오. 이 옵션을 선택 취소하는 경우, 통합 어플라이언스는 사용자가 IP 주소, 서브넷 및 브로드캐스트 설정을 지정해야 합니다.

기본적으로, 통합 어플라이언스는 DHCP를 사용하여 데이터 네트워크 설정을 구성합니다. 데이터 네트워크 설정을 수동으로 구성하려면 DHCP 사용 옵션을 선택 취소하고 필수 설정에 대해 올바른 값을 입력하십시오. 통합 어플라이언스는 다음 관리 네트워크 설정이 필요합니다.

- IP 주소
  - 서브넷
  - 브로드캐스트
4. 관리 네트워크 섹션에서 DHCP 사용 옵션을 선택하십시오. 이 옵션을 선택 취소하는 경우, 통합 어플라이언스는 사용자가 IP 주소, 서브넷 및 브로드캐스트 설정을 지정해야 합니다.

기본적으로, 통합 어플라이언스는 DHCP를 사용하여 관리 네트워크 설정을 구성합니다. 관리 네트워크 설정을 수동으로 구성하려면 DHCP 사용 옵션을 선택 취소하고 필수 설정에 대해 올바른 값을 입력하십시오. 통합 어플라이언스는 다음 관리 네트워크 설정이 필요합니다.

- IP 주소
  - 서브넷
  - 브로드캐스트
5. 게이트웨이 인터페이스 및 게이트웨이 소스를 선택하십시오.
  6. 호스트 이름을 설정하는 옵션을 선택하십시오.
  7. 도메인을 설정하는 옵션을 선택하십시오.
  8. DNS를 설정하는 옵션을 선택하십시오. 복수 DNS 값을 지정할 때는 공백을 사용하여 값을 구분하십시오.
  9. 시간 서버를 설정하는 옵션을 선택하십시오.
  10. 다음을 클릭하여 설정을 유효성 검증하십시오.
  11. 다음을 클릭하여 설정을 적용하십시오.
  12. 완료를 클릭하십시오.
  13. 통합 어플라이언스가 다시 시작되기를 기다리고 로그인하십시오.

상위 주제: [통합 어플라이언스 관리](#)

# 시스템 명령 실행

## 프로시저

1. 탐색 분할창에서 시스템 > 명령을 선택하십시오. 시스템 명령 페이지가 표시됩니다.
2. 명령 선택 목록에서 명령을 선택하십시오.
3. 이동을 클릭하십시오.

상위 주제: [통합 어플라이언스 관리](#)

## 시스템 명령

관리 콘솔에서 시스템 명령을 실행할 수 있습니다. 통합 어플라이언스 구성(독립형 대 고가용성 쌍)과 통합 어플라이언스 상태(활성 또는 대기)에 따라서 서로 다른 시스템 명령이 사용 가능합니다. 다음 표는 관리 콘솔에서 사용 가능한 모든 시스템 명령을 나열하며 통합 어플라이언스 구성 또는 상태로 인한 작동 차이를 주목합니다.

명령	설명
Remove job history	remove job history 명령은 오케스트레이션 모니터링 데이터를 제거합니다.
Remove project and configurations	remove projects and configurations 명령은 현재 배치된 프로젝트 데이터를 제거합니다.
Remove all jobs in progress	remove all job in progress 명령은 현재 실행 중인 프로젝트 데이터를 제거합니다.
Download postmortem	download postmortem 명령은 사용자가 지정하는 FTP 서버로 postmortem 아카이브를 내보냅니다. 통합 어플라이언스는 사용자가 내보내기 파일 이름을 지정할 것을 요구하지 않지만, 우수 사례로서 통합 어플라이언스 일련 번호, 날짜 및 시간소인을 포함해야 합니다. 내보내기 파일 이름을 지정하지 않는 경우 통합 어플라이언스는 postmortem.tar.gz라는 파일을 내보냅니다. Note: 사용자 이름이나 비밀번호에서 예약어를 사용하지 마십시오.
Restart	통합 어플라이언스 라우팅 서브시스템을 다시 시작합니다.
Reboot	모든 라우팅 서비스를 시스템 종료한 후 통합 어플라이언스를 다시 부팅합니다. 강제 실행 매개변수가 사용되는 경우 다시 부팅이 즉시 시작됩니다.
HA Connect	HA 쌍에 대해서만 사용할 수 있습니다. ha connect 명령은 활성 및 대기 통합 어플라이언스를 다시 연결하여 장애 복구 조작을 재개할 수 있는 HA 쌍을 작성합니다. 이 명령은 HA Disconnect 명령을 실행하여 HA 쌍 연결을 끊은 경우에만 사용할 수 있습니다.

명령	설명
HA Disconnect	HA 쌍에 대해서만 사용할 수 있습니다. ha disconnect는 대기 머신이 활성 머신을 인계하도록 만들지 않고 HA 쌍의 연결을 일시적으로 끊습니다. 이 조치를 사용하면 오케스트레이션 처리를 인터럽트하지 않고 대기 머신에서 모든 필요한 하드웨어 또는 소프트웨어 유지보수를 수행할 수 있습니다. 이 조치를 선택할 때 대기 머신이 유휴 상태로 상태 전이합니다. 활성 머신을 다시 부팅하거나 연결 조치를 실행하여 HA 쌍 사이의 통신을 재구축하고 데이터 동기화 및 장애 복구 조작을 재개합니다. 활성 머신에서 유지보수를 수행하려면 전환 조치를 사용하십시오. 활성 머신이 대기 머신이 되며, 그곳에서 연결 끊기 조치를 사용하고 오케스트레이션 처리를 인터럽트하지 않고 통합 어플라이언스 유지보수를 수행할 수 있습니다.
HA Switch	HA 쌍에 대해서만 사용할 수 있습니다. ha switch 명령은 HA 쌍의 통합 어플라이언스가 역할을 교환하게 합니다. 활성 머신이 대기 머신이 되고 대기 머신이 활성 머신이 됩니다.
Reboot active machine (allow peer takeover)	HA 쌍에 대해서만 사용할 수 있습니다. reboot active machine (allow peer takeover) 명령은 모든 라우팅 서비스를 시스템 종료한 후 HA 쌍의 활성 통합 어플라이언스를 다시 부팅합니다. 이 명령을 사용하여 활성 통합 어플라이언스를 다시 부팅할 때, 대기 통합 어플라이언스가 데이터 처리를 인수합니다.
Reboot active machine (prevent peer takeover)	HA 쌍에 대해서만 사용할 수 있습니다. reboot active machine (prevent peer takeover) 명령은 모든 라우팅 서비스를 시스템 종료한 후 HA 쌍의 활성 통합 어플라이언스를 다시 부팅합니다. 이 명령을 사용하여 활성 통합 어플라이언스를 다시 부팅할 때, 활성 통합 어플라이언스는 모든 데이터 처리를 중지하고 대기 통합 어플라이언스가 데이터 처리를 인수하지 않습니다.
Reboot standby machine	HA 쌍에 대해서만 사용할 수 있습니다. reboot standby machine 명령은 HA 쌍의 대기 통합 어플라이언스를 다시 부팅합니다. 대기 통합 어플라이언스가 다시 부팅 중일 때 활성 통합 어플라이언스는 계속 데이터를 처리합니다. 성공적인 다시 부팅 후에, 대기 통합 어플라이언스가 활성 통합 어플라이언스와 동기화합니다.

## Dell 통합 어플라이언스 업그레이드

이 섹션은 WMC를 사용하여 Dell 통합 어플라이언스로 부 버전 및 패치 릴리스 업로드에 대한 정보를 제공합니다. 어플라이언스를 업그레이드할 때, Cast Iron® 운영 체제의 최신 기능에 액세스할 수 있습니다. 이 업그레이드 프로세스는 필요한 파일만 대체하거나 추가하며 어떤 데이터도 영구 삭제하지 않습니다.

### 이 태스크 정보

업그레이드 이미지를 어플라이언스로 업로드하여 Cast Iron 운영 체제의 최신 버전으로 업그레이드하려면 웹 관리 콘솔(WMC)을 사용하십시오. WMC는 모든 실행 중인 프로젝트가 배치되지 않은 상태로 강제 실행하고 업그레이드 프로시저 중에 어플라이언스에서 현재 실행 중인 모든 활성 오케스트레이션 작업을 중지함을 주의하십시오. 어플라이언스가 업그레이드된 후에는 실행 취소하거나 이전 버전으로 롤백할 수 없습니다.

참고: 업그레이드는 명령 인터페이스(CLI)를 통해 적용될 수도 있습니다. 이 옵션 사용에 대한 자세한 정보는 *CLI 참조 안내서*의 system update 명령을 참조하십시오.

## 프로시저

1. 최신 패치를 요청하고 패치를 사용자가 액세스할 수 있는 위치로 다운로드하십시오. 예: C:\Desktop
2. WMC를 사용하여 업그레이드하려는 Dell 통합 어플라이언스에 로그인하십시오.
3. 시스템 > 업그레이드를 선택하십시오. 업그레이드 페이지가 표시됩니다.
4. 운영 체제 업그레이드 링크를 클릭하십시오. 업그레이드 마법사가 시작됩니다.
5. 찾아보기를 클릭하여 업그레이드 파일을 찾으십시오.
6. 업그레이드를 클릭하십시오. 통합 어플라이언스가 업그레이드 파일을 업로드하고 업그레이드 프로세스를 시작합니다. 업그레이드가 완료될 때 통합 어플라이언스가 자동으로 다시 부팅됩니다.
7. 다시 부팅이 완료될 때 WMC 로그인 페이지가 표시됩니다. 페이지가 표시되지 않으면 브라우저 새로 고치기 단추를 클릭하십시오.

## 다음에 수행할 작업

WMC를 사용하여 이 업그레이드 프로시저에 의해 배치 취소된 모든 프로젝트를 재배포하십시오. 설치된 Cast Iron 운영 체제와 호환 가능한 Studio 버전으로 업그레이드하십시오. 어플라이언스 및 Studio 호환성에 대한 자세한 정보는 *Cast Iron 운영 체제 릴리스 정보* 또는 *Cast Iron Studio 릴리스 정보*의 호환성 섹션을 참조하십시오. Studio 업그레이드 프로시저에 대해서는 *Studio 설치*를 참조하십시오.

상위 주제: [통합 어플라이언스 관리](#)

## DataPower 통합 어플라이언스 업그레이드

이 섹션은 WMC를 사용하여 Cast Iron® Cast Iron XH40 통합 어플라이언스로 부 버전 및 패치 릴리스 업로드에 대한 정보를 제공합니다. 어플라이언스를 업그레이드할 때, Cast Iron 운영 체제의 최신 기능에 액세스할 수 있습니다. 업그레이드 프로세스는 필요한 파일만 대체하거나 추가하며 어떤 데이터도 영구 삭제하지 않습니다.

## 이 태스크 정보

업그레이드 이미지를 어플라이언스로 업로드하여 Cast Iron 운영 체제의 최신 버전으로 업그레이드하려면 웹 관리 콘솔(WMC)을 사용하십시오. WMC는 모든 실행 중인 프로젝트가 배치되지 않은 상태로 강제 실행하고 업그레이드 프로시저 중에 어플라이언스에서 현재 실행 중인 모든 활성 오케스트레이션 작업을 중지함을 주의하십시오. 어플라이언스가 업그레이드된 후에는 실행 취소하거나 이전 버전으로 롤백할 수 없습니다.

참고: 업그레이드는 명령 인터페이스(CLI)를 통해 적용될 수도 있습니다. 이 옵션 사용에 대한 자세한 정보는 *CLI 참조 안내서*의 system update 명령을 참조하십시오.

## 프로시저

1. 최신 패치를 얻은 후, Windows 워크스테이션에서 액세스할 수 있는 위치(예: C:\Desktop)로 어플라이언스 업그레이드 이미지 파일을 다운로드하십시오.
2. WMC를 사용하여 Cast Iron 운영 체제를 실행 중인 통합 어플라이언스에 로그인하십시오.

3. WMC의 항목 메뉴에서 시스템 > 업그레이드를 선택하십시오. 모델, 버전 및 일련 번호를 표시하는 시스템 요약 창이 표시됩니다.
4. 운영 체제 업그레이드를 클릭하십시오. 업그레이드 창이 표시됩니다.
5. 텍스트 필드에서 어플라이언스 업그레이드 이미지 파일로의 경로를 지정하거나 찾아보기를 클릭하여 업그레이드 이미지 파일을 찾으십시오.
6. 업그레이드를 클릭하십시오. 업그레이드 패널에서, 다음 메시지가 표시됩니다. 업그레이드가 진행 중입니다. 기다리십시오. 진행 표시줄이 업로드 상태를 표시합니다. 업로드가 완료될 때 WMC가 업그레이드를 유효성 검증합니다. 업그레이드가 성공하는 경우 어플라이언스가 다시 부팅됩니다.
7. WMC를 사용하여 어플라이언스에 로그인하십시오. 브라우저 새로 고치기 단추를 클릭해야 할 수도 있습니다.

## 다음에 수행할 작업

WMC를 사용하여 이 업그레이드 프로시저에 의해 배치 취소된 모든 프로젝트를 재배포하십시오. 설치된 Cast Iron 운영 체제와 호환 가능한 Studio 버전으로 업그레이드하십시오. 어플라이언스 및 Studio 호환성에 대한 자세한 정보는 *Cast Iron 운영 체제 릴리스 정보* 또는 *Cast Iron Studio 릴리스 정보*의 호환성 섹션을 참조하십시오. Studio 업그레이드 프로시저에 대해서는 *Studio 설치*를 참조하십시오.

상위 주제: [통합 어플라이언스 관리](#)

## 네트워크 경로에 대한 작업

통합 어플라이언스에 대한 네트워크 경로를 추가하고 삭제할 수 있습니다.

상위 주제: [통합 어플라이언스 관리](#)

## 네트워크 경로 추가

### 프로시저

1. 탐색 분할창에서 네트워크를 선택하십시오. 네트워크 설정 페이지가 표시됩니다.
2. 편집을 클릭하십시오. 네트워크 설정 편집 마법사가 표시됩니다.
3. 경로 섹션에서 새 규칙을 클릭하십시오. 새 네트워크 경로 대화 상자가 표시됩니다.
4. 대상을 지정하십시오.
5. 넷마스크를 지정하십시오.
6. 드롭 다운 목록에서 인터페이스를 선택하십시오.
7. 게이트웨이를 지정하십시오.
8. 저장을 클릭하십시오.
9. 다음을 클릭하여 설정을 유효성 검증하십시오.
10. 다음을 클릭하여 설정을 적용하십시오.
11. 완료를 클릭하십시오.
12. 통합 어플라이언스가 다시 시작되기를 기다리고 로그인하십시오.

## 네트워크 경로 삭제

### 프로시저

1. 탐색 분할창에서 네트워크를 선택하십시오. 네트워크 설정 페이지가 표시됩니다.
2. 편집을 클릭하십시오. 네트워크 설정 편집 마법사가 표시됩니다.
3. 경로 섹션에서 삭제를 클릭하십시오. 확인 창이 표시됩니다.
4. 예를 클릭하십시오.

5. 다음을 클릭하여 설정을 유효성 검증하십시오.
6. 다음을 클릭하여 설정을 적용하십시오.
7. 완료를 클릭하십시오.
8. 통합 어플라이언스가 다시 시작되기를 기다리고 로그인하십시오.

## 오케스트레이션 관리

오케스트레이션 관리 주제는 오케스트레이션 설정 편집 및 작업 보고서 내보내기에 관한 정보를 제공합니다.

- [오케스트레이션 설정 정보](#)  
오케스트레이션 설정을 사용하면 프로젝트 구성에서 개별 오케스트레이션에 대한 특성을 구성할 수 있습니다. 각 오케스트레이션에 대해 오케스트레이션이 사용 가능한지 여부, 로깅 레벨, 로깅 작동, 오케스트레이션이 동시에 실행할 수 있는 최대 작업 수를 지정할 수 있습니다.
- [오케스트레이션 설정 편집](#)
- [오케스트레이션 모니터링 데이터 내보내기](#)

## 오케스트레이션 설정 정보

오케스트레이션 설정을 사용하면 프로젝트 구성에서 개별 오케스트레이션에 대한 특성을 구성할 수 있습니다. 각 오케스트레이션에 대해 오케스트레이션이 사용 가능한지 여부, 로깅 레벨, 로깅 작동, 오케스트레이션이 동시에 실행할 수 있는 최대 작업 수를 지정할 수 있습니다.

프로젝트 구성이 배치 취소될 때 다음 오케스트레이션 설정을 편집할 수 있습니다.

오케스트레이션 설정	설명
사용	오케스트레이션이 사용으로 설정되고 배치될 수 있는지 여부를 표시합니다. 프로젝트 구성을 배치하려면 프로젝트 구성에 있는 하나 이상의 오케스트레이션이 사용으로 설정되어야 합니다. 기본적으로, 프로젝트 구성의 모든 오케스트레이션은 사용으로 설정됩니다.
로깅 레벨	시스템 로그에 로그되는 오케스트레이션 세부사항의 레벨을 지정할 수 있습니다. <ul style="list-style-type: none"> <li>• 없음 - 오케스트레이션 상태와 활동이 로그되지 않습니다.</li> <li>• 초기값 - 오케스트레이션 변수의 초기값만 로그됩니다.</li> <li>• 초기 및 오류 값 - 오케스트레이션 변수의 초기값과 오케스트레이션 오류가 둘 다 로그됩니다.</li> <li>• 오류 값 - 오케스트레이션 오류만 로그됩니다.</li> <li>• 인라인 - 호출하는 오케스트레이션의 작업 세부사항과 함께 인라인인 하위 오케스트레이션에 대한 오케스트레이션 작업 세부사항이 로그됩니다.</li> <li>• 모두 - 가장 높은 로깅 레벨입니다. 모든 오케스트레이션 활동이 로그됩니다.</li> </ul>



오케스트레이션 설정	설명
동시 로그	<p>오케스트레이션이 실행 중일 때 런타임이 오케스트레이션 이벤트의 쓰기를 오케스트레이션 모니터링 로그에 동기화할 수 있게 합니다.</p> <p>기본적으로, 이 오케스트레이션 설정은 사용 안함으로 설정되며 오케스트레이션 작업은 동기식으로 로그되지 않습니다.</p> <p>참고:</p> <p>이 오케스트레이션 설정을 사용으로 설정할 때, 오케스트레이션 작업을 처리하는 데 걸리는 시간이 늘어납니다.</p>
최대 동시 작업	동시에 실행할 수 있는 오케스트레이션 작업의 수를 지정할 수 있습니다.

상위 주제: [오케스트레이션 관리](#)

## 오케스트레이션 설정 편집

### 시작하기 전에



오케스트레이션 설정을 편집하려면 프로젝트 구성이 배치 취소되어야 합니다.

테넌트 관리자, 환경 관리자(프로젝트가 공개되는 환경에 대한) 및 프로젝트의 공개자가 오케스트레이션 특성을 편집할 수 있습니다.

### 이 태스크 정보

참고: 프로젝트 구성 권한을 그룹에 지정하는 경우, 해당 그룹의 사용자는 프로젝트 구성에 대한 전체 액세스 권한을 갖습니다. 즉, 프로젝트 구성의 새 버전을 작성할 뿐 아니라 프로젝트 구성을 편집 및 삭제할 수 있습니다.

### 프로시저

1. 프로젝트 구성이 공개되는 환경 탭을 선택하십시오.
2. 탐색 분할창에서 저장소 > 구성을 선택하십시오. 프로젝트 구성 페이지가 표시됩니다.
3. 편집하려는 프로젝트 구성이 실행 중인 경우, 조치 열에서  중지 아이콘을 클릭하여 프로젝트 구성을 중지하십시오. 구성 중지 대화 상자가 표시될 때 다음 옵션 중 하나를 클릭하십시오.
  - 작업 완료 - 지정된 시간에, 현재 작업이 처리를 완료하도록 허용하면서 임의의 새 오케스트레이션 작업이 시작하지 못하게 합니다. 작업이 종료하도록 허용합니다.
  - 작업 취소 - 지정된 시간에 모든 새 오케스트레이션 작업이 시작하지 못하게 하고 현재 실행 중인 모든 작업을 중지합니다. 이 조치는 모든 작업을 즉시 중지합니다.
4. 조치 열에서  배치 취소 아이콘을 클릭하여 프로젝트 구성을 배치 취소하십시오.
5. 편집하려는 프로젝트 구성을 클릭하십시오. 구성 세부사항 페이지가 표시됩니다.
6. 오케스트레이션 섹션에서 편집을 클릭하여 오케스트레이션 설정을 편집하십시오. 오케스트레이션 설정 편집 창이 표시됩니다.
7. 저장을 클릭하십시오.
8. 오케스트레이션 작업 처리를 시작하려면 프로젝트 구성을 배치하십시오.

### 결과

사용자가 작성하는 업데이트가 구성 세부사항 페이지의 오케스트레이션 섹션에 표시되며 런타임이 지정된 대로 오케스트레이션을 처리합니다.

상위 주제: [오케스트레이션 관리](#)

## 오케스트레이션 모니터링 데이터 내보내기

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### 이 태스크 정보

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오케스트레이션 모니터링 데이터를 내보낼 수 있습니다. 오케스트레이션 모니터링 데이터를 내보낼 때, 내보내는 오케스트레이션 모니터링 데이터를 삭제하거나 시스템에 오케스트레이션 모니터링 데이터를 지속할 것을 선택할 수 있습니다.

오케스트레이션 모니터링 데이터를 삭제할 것을 선택하는 경우 데이터를 복구할 메커니즘이 없습니다.

### 프로시저

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1. 탐색 분할창에서 로그 > 작업 로그를 선택하십시오. 결과 페이지가 표시됩니다.
2. 내보내기를 클릭하십시오. 작업 내보내기 창이 표시됩니다.
3. 다음 내보내기 옵션 중 하나를 선택하십시오.
  - 내보내기 및 삭제 - 모니터링 데이터를 내보내고 데이터를 환경에서 삭제합니다.
  - 내보내기 - 모니터링 데이터를 내보내고 데이터를 환경에 유지합니다.
4. 내보낸 로그 파일을 다운로드하려면 지금 다운로드를 클릭하십시오.
5. 파일을 열거나 저장할 것을 선택하십시오. 파일을 저장하려는 경우 위치를 지정하고 저장을 클릭하십시오. 사용자가 지정한 위치에 XML 파일이 저장됩니다.

상위 주제: [오케스트레이션 관리](#)

## 프로젝트 관리

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프로젝트 관리 주제는 통합 프로젝트 작성, 관리 및 배치에 관한 정보를 제공합니다.

- [자산 정보](#)
- [프로젝트 및 구성 이름 지정 정보](#)
- [프로젝트 구성 정보](#)
- [프로젝트 정보](#)
- [프로젝트 구성 복제](#)
- [프로젝트 복사](#)
- [스크래치에서 프로젝트 작성](#)
- [템플릿에서 프로젝트 작성](#)
- [프로젝트 구성 삭제](#)
- [프로젝트 삭제](#)
- [프로젝트 구성 배치](#)
- [프로젝트 구성 특성 편집](#)
- [프로젝트 편집](#)
- [데이터베이스 자산 정보](#)
- [프로젝트 공개](#)
- [Cast Iron 프로젝트에서 API 관리로 WSDL 푸시](#)
- [Cast Iron 프로젝트에서 API 관리로 REST API\(Swagger\) 푸시](#)
- [데이터베이스 자산 재작성](#)
- [자산 테이블 이름에 대한 필수 따옴표](#)

- [TIP 검토](#)  
다운로드한 모든 TIP에 대해 등급을 지정하고 검토를 제공할 수 있습니다.
- [프로젝트 구성 중지](#)
- [프로젝트 구성 업로드](#)
- [웹 서비스 자산 보기 및 저장](#)
- [프로젝트 구성에 대한 작업](#)

## 자산 정보

관리 콘솔은 자산을 엔드포인트별로 그룹화합니다. 자산은 데이터베이스 및 다음 오케스트레이션 활동에 연결하는 웹 서비스 엔드포인트에 대해 생성되어야 합니다.

- 스타터 데이터베이스 활동.
- 정확하게 전달 옵션이 한 번만 지정되는 비스타터 데이터베이스 활동.
- 서비스 제공 활동.

각 데이터베이스 엔드포인트에 대해, 프로젝트 구성을 배치할 수 있기 전에 데이터베이스 자산과 연관된 구성 특성에 대한 고유한 값을 지정해야 합니다. 데이터베이스 자산은 제어 테이블, 버퍼 테이블, 순서 테이블 또는 트리거입니다. 모든 스타터 데이터베이스 활동은 하나의 버퍼 테이블에서 관리되는 반면, 개별 제어 테이블에서 전달 옵션이 정확히 한 번만 지정되는 각 비스타터 데이터베이스 활동에 대한 이벤트를 관리합니다.

서비스 제공 활동에 대한 WSDL은 통합 환경에 의해 생성됩니다. 관리 콘솔에서 이 웹 서비스 자산을 저장할 수 있습니다.

상위 주제: [프로젝트 관리](#)

## 프로젝트 및 구성 이름 지정 정보

프로젝트 및 프로젝트 구성 이름은 42자보다 길 수 없습니다. 프로젝트 또는 프로젝트 구성을 작성할 때 예약 문자의 다음 목록 사용을 피하십시오.

예약된 문자	설명
'&'	앰퍼샌드
'{''''''[""]'<">'	모든 대괄호
'*'	별표
'\'	백슬래시
'^'	캐럿
':'	콜론
'\$'	달러 부호
'/'	슬래시
'#'	숫자 부호
'()'	소괄호
' '	파이프
'.'	마침표

예약된 문자	설명
'?'	물음표
','	세미콜론
' '	공백
'~'	물결 기호

상위 주제: [프로젝트 관리](#)

## 프로젝트 구성 정보

프로젝트 구성을 사용하면 동일한 통합 프로젝트의 복수 변종을 작성할 수 있으므로 하나의 프로젝트를 작성 및 공개하고 많은 상이한 시나리오에 배치할 수 있습니다. 프로젝트 구성 내에서 사용으로 설정된 오케스트레이션을 지정하고 엔드포인트에 대한 구성 특성을 수정하고 자산을 생성 또는 수정하고 스케줄된 정지 시간 규칙을 관리하고 프로젝트 구성에 대한 권한을 제어할 수 있습니다.

공개하는 각 프로젝트는 기본 프로젝트 구성을 갖습니다. 관리 콘솔에서 추가 프로젝트 구성을 작성할 수 있습니다. 프로젝트 이름, 프로젝트 버전, 구성 이름 및 프로젝트 상태가 각 프로젝트 구성을 고유하게 식별합니다.

프로젝트 구성을 작성, 편집 및 삭제하기 위해서는 사용자가 관리자 권한이 있거나 특정 프로젝트의 공개자여야 합니다. 관리자와 공개자는 사용자 및 그룹에 프로젝트 구성을 작성, 편집 및 삭제할 수 있는 권한을 부여할 수 있습니다.

요약 섹션은 저장소 > 구성에서 선택되는 프로젝트 구성의 세부사항을 표시합니다. 요약 섹션에는 프로젝트 구성 이름, 구성의 상태, 프로젝트가 마지막으로 공개된 날짜 및 시간, 프로젝트 구성을 공개 또는 복제한 사용자의 이름이 포함되어 있습니다. 또한, 요약 페이지는 오케스트레이션의 수, 특성, 자산 및 구성과 연관된 스케줄된 정지 시간을 표시합니다.

참고: 프로젝트 구성을 공개 또는 복제한 사용자의 이름이 다음 형식으로 표시됩니다.

- `username [groupname] - (groupname)`에 속하는 이 특정 사용자(username)가 프로젝트 구성을 공개 또는 복제한 사용자임을 표시합니다.
- `username {user does not exist}` - 사용자가 통합 어플라이언스에 존재하지 않음을 표시합니다.

## 오케스트레이션 사용 및 사용 안함 설정

런타임은 사용 가능한 오케스트레이션에 대해서만 오케스트레이션 작업을 실행합니다. 프로젝트 구성을 배치할 수 있기 전에 프로젝트 구성이 하나 이상의 사용 가능한 오케스트레이션을 포함해야 합니다. 기본적으로 모든 오케스트레이션이 사용으로 설정됩니다.

오케스트레이션 로깅 레벨을 지정하면 시스템 로그에 기록되는 오케스트레이션 오류의 유형을 제어할 수 있습니다. 관리 콘솔은 또한 동시에 실행하는 작업의 수를 제한할 수 있게 합니다. 동시에 실행하는 작업의 수는 성능에 영향을 줄 수 있습니다.

오케스트레이션 특성을 지정하려면 관리자 또는 공개자 권한이 있어야 합니다.

## 구성 특성 이해

Studio에서 프로젝트에 대한 이들 구성 특성을 작성합니다. 프로젝트 특성 작성 및 프로젝트 버전 지정에 대한 자세한 정보는 Studio 온라인 도움말을 참조하십시오.

프로젝트를 공개할 때 구성 특성에 대한 값을 지정할 수 있습니다. 구성 특성에 대해 사용자가 지정하는 값이 프로젝트가 배치되는 방법을 판별합니다. 예를 들어, 데이터베이스 엔드포인트를 포함하는 프로젝트에서 데이터베이스 연결 매개변수에 대한 특성을 작성할 수 있습니다. 그러면 테스트 데이터베이스에 연결하는 테스트 환경에 대한 프로젝트 구성을 작성한 후

동일한 프로젝트를 사용하여 또 다른 데이터베이스에 연결하는 프로덕션 환경에 대한 또 다른 프로젝트 구성을 작성할 수 있습니다.

관리 콘솔에서 구성 특성을 편집하려면 관리자 또는 공개자 권한을 가져야 합니다.

## 자산 수정

프로젝트 구성이 데이터베이스 또는 웹 서비스 엔드포인트를 포함하는 경우, 프로젝트 구성을 배치할 수 있기 전에 자산을 생성해야 합니다. 프로젝트가 데이터베이스 또는 웹 서비스 엔드포인트를 포함하지 않는 경우 자산은 사용자의 프로젝트 구성과 무관합니다.

자산을 생성 또는 수정하려면 관리자 또는 공개자 권한이 있어야 합니다.

## 정지 시간 스케줄링

정지 시간을 스케줄하면 유지보수를 수행할 수 있습니다. 지정된 지속 기간 동안 해당 프로젝트 구성의 모든 사용 가능한 오케스트레이션 작업을 중지 또는 일시중단하는 프로젝트 구성에 대한 정지 시간 규칙을 작성할 수 있습니다. 정지 시간 규칙을 작성하거나 편집하기 위해 프로젝트 구성이 배치 취소될 필요는 없습니다. 정지 시간 규칙은 한 번 발생하거나 지정된 간격으로 반복할 수 있습니다.

정지 시간 규칙을 작성, 편집 또는 삭제하려면 관리자 또는 공개자 권한이 있어야 합니다.

## 프로젝트 구성 권한 편집

관리자 또는 프로젝트 공개자로서, 다른 사용자 및 그룹에 프로젝트 구성에 대한 권한을 부여할 수 있습니다. 사용자나 그룹에 프로젝트 구성에 대한 권한을 부여할 때, 그들은 프로젝트 구성을 작성, 편집 및 삭제할 수 있습니다. 기본적으로, 프로젝트 구성에 대한 권한은 관리자 그룹에만 부여됩니다. 또 다른 그룹에 권한을 부여하려는 경우 명시적으로 수행해야 합니다.

예를 들어, 사용자가 공개자 권한을 갖는 사용자이고 기본 제공 공개자 그룹에 속합니다. 프로젝트를 공개합니다. 관리자 그룹과 사용자만 프로젝트 구성에 대한 권한을 갖고 있습니다. 사용자가 구성원인 공개자 그룹의 구성원은 프로젝트 구성에 대한 권한을 갖지 않습니다. 공개자 같은 다른 그룹을 포함하도록 프로젝트 구성에 대한 권한을 편집해야 합니다. 자세한 정보는 [프로젝트 구성 권한 부여](#)의 내용을 참조하십시오.

상위 주제: [프로젝트 관리](#)

## 프로젝트 정보

프로젝트에는 런타임이 통합 시나리오를 실행하기 위해 필요한 컴포넌트인 오케스트레이션, 엔드포인트, 맵 및 기타 문서가 들어 있습니다. 통합 환경에 연결되지 않고 프로젝트를 작성 및 테스트하려면 Studio를 사용하십시오.

복수 사용자가 동일한 통합 환경에 복수 프로젝트를 공개할 수 있습니다. 통합 환경에 프로젝트를 공개하거나 스테이징 위치로 프로젝트를 내보내려면 Studio를 사용하십시오. 나중에 관리 콘솔을 사용하여 내보낸 프로젝트를 업로드할 수 있습니다. 프로젝트를 통합 환경에 공개하거나 업로드하려면 관리자 또는 공개자 권한이 있어야 합니다.

Studio에서 프로젝트를 공개할 때, 관리 콘솔이 기본 프로젝트 설정을 갖는 프로젝트를 표시합니다. 즉, 기본 프로젝트 구성을 작성합니다. 이 기본 프로젝트 구성을 복제하여 새 프로젝트 구성을 작성할 수 있는데, 별도의 개발 및 프로덕션 환경에 대해 구성할 수 있습니다.

프로젝트를 작성하고 엔드포인트 구성 특성을 지정한 후 관리 콘솔을 사용하여 프로젝트 구성을 지정하고 프로젝트 구성을 배치하려면 Studio를 사용하십시오.

상위 주제: [프로젝트 관리](#)

# 프로젝트 구성 복제

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## 시작하기 전에

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프로젝트 구성을 복제하려면 관리자 권한이 있거나 프로젝트의 공개자여야 합니다.

## 이 태스크 정보


---

프로젝트 구성은 동일한 통합 프로젝트의 다중 버전을 작성하기 위해 관리 콘솔에서 구성할 수 있는 특성 및 자산을 포함합니다. 새 구성을 작성할 때 기존 프로젝트 구성을 복제할 것을 선택할 수 있습니다. 복제된 프로젝트 구성은 원래 프로젝트 구성에서 모든 구성을 상속합니다. 그러나 원래 구성 프로젝트를 편집하는 경우 변경이 복제된 프로젝트로 전파되지 않습니다.

참고: 프로젝트 구성을 보기에 명시적으로 추가하지 않는 경우 사용자가 복제하는 프로젝트 구성이 즐겨찾기 보기에 표시되지 않습니다.

## 프로시저

---

1. 탐색 분할창에서 저장소 > 구성을 선택하십시오. 프로젝트 구성 페이지가 표시됩니다.
2. 구성 필터 목록에서 모두를 선택하십시오. 모든 프로젝트 구성이 표시됩니다.
3. 복제할 프로젝트 구성을 찾으십시오.
4. 복제 아이콘  을 클릭하십시오. 프로젝트 구성 작성 대화 상자가 표시됩니다.
5. 새 프로젝트 구성에 대한 고유한 이름을 제공하십시오.
6. 확인을 클릭하십시오.

## 결과

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복제된 프로젝트 구성이 프로젝트 구성 페이지에 표시됩니다. 복제된 프로젝트는 원래 프로젝트 구성과 동일한 모든 프로젝트 구성 세부사항을 갖습니다.

상위 주제: [프로젝트 관리](#)

# 프로젝트 복사

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## 이 태스크 정보

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관리 콘솔에서 기존 프로젝트에 새 버전 번호를 지정하여 프로젝트를 복사할 수 있습니다.

## 프로시저

---

1. 수정 탭을 클릭하십시오. 프로젝트 페이지가 표시됩니다.
2. 복사할 프로젝트를 클릭하십시오. 프로젝트 복사 대화 상자가 표시됩니다.
3. 새 프로젝트 버전을 입력하십시오. 버전 번호는 10진수를 포함할 수 있습니다.
4. 저장을 클릭하십시오.

## 결과

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프로젝트의 사본이 프로젝트 페이지에 알파벳순으로 표시됩니다.

## 스크래치에서 프로젝트 작성

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### 이 태스크 정보

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클라우드의 스크래치로부터 프로젝트를 작성할 수 있습니다.

### 프로시저

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1. 작성 탭을 클릭하십시오. 솔루션 페이지가 표시됩니다.
2. 스크래치에서 하나 작성을 클릭하십시오. 프로젝트 작성 대화 상자가 표시됩니다.
3. 고유한 프로젝트 이름을 지정하십시오.
4. 저장을 클릭하십시오. 프로젝트가 수정 탭의 프로젝트 페이지에 표시됩니다.

### 결과

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이제 프로젝트를 편집, 공개, 삭제 또는 복사할 수 있습니다. 프로젝트 세부사항을 보고 프로젝트에 권한을 지정하려면 프로젝트를 선택하십시오. 권한을 지정하는 경우 저장을 클릭하여 업데이트를 저장하십시오.

프로젝트 세부사항에는 프로젝트 구성이 공개된 환경, 프로젝트를 공개한 마지막 시간의 시간소인, 프로젝트 구성의 현재 상태(예: 배치됨)가 포함됩니다.

상위 주제: [프로젝트 관리](#)

## 템플릿에서 프로젝트 작성

---

### 이 태스크 정보

---

템플릿에서 프로젝트를 작성할 수 있습니다. 템플릿은 솔루션 저장소에 저장됩니다. 모든 사용자는 템플릿 솔루션을 작성하고 솔루션 저장소로 업로드할 수 있습니다.

참고:

솔루션 저장소의 모든 템플릿이 인증된 것은 아닙니다. 인증된 템플릿은 WebSphere® DataPower® Cast Iron® 로고로 표시됩니다.

### 프로시저

---

1. 작성 탭을 클릭하십시오. 솔루션 페이지가 표시됩니다.
2. 템플릿을 검색하십시오.
  - a. 소스 엔드포인트를 선택하십시오.
  - b. 대상 엔드포인트를 선택하십시오.
  - c. 검색을 클릭하십시오.

키워드 검색 옵션을 선택하여 키워드를 사용하여 템플릿을 검색할 수도 있습니다.

3. 리턴되는 솔루션에서 템플릿을 선택하십시오. 템플릿 세부사항이 표시됩니다.
4. 이 템플릿을 바탕으로 프로젝트 작성을 클릭하십시오. Studio 클라우드가 시작되고 마법사가 프로젝트 작성 프로세스를 단계적으로 안내합니다.

## 결과

---

상위 주제: [프로젝트 관리](#)

# 프로젝트 구성 삭제

---

## 시작하기 전에

---

프로젝트 구성의 공개자, 환경 관리자 또는 테넌트 관리자는 프로젝트 구성을 삭제할 수 있습니다. 프로젝트 구성의 공개자는 다른 사용자가 그의 프로젝트 구성을 삭제하도록 허용하는 권한을 부여할 수 있습니다. 환경 관리자는 다른 사용자가 환경의 모든 프로젝트 구성을 삭제하도록 허용하는 권한을 부여할 수 있습니다. 테넌트 관리자는 다른 사용자가 테넌트의 모든 프로젝트 구성을 삭제하도록 허용하는 권한을 부여할 수 있습니다.

프로젝트 구성이 배치 취소되어야 해당 구성을 삭제할 수 있습니다.

## 이 태스크 정보

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프로젝트 구성을 삭제할 때 프로젝트 구성과 연관된 모든 모니터링 히스토리도 삭제됩니다.

## 프로시저

---

1. 프로젝트 구성이 공개되는 환경 탭을 선택하십시오. 프로젝트 구성의 목록이 대시보드의 프로젝트 구성 섹션에 표시됩니다.
2. 삭제하려는 프로젝트 구성이 배치 취소되었는지 확인하십시오. 상태는 프로젝트 구성 이름의 끝에 있는 소괄호() 안에 표시됩니다. 예: (undeployed)
3. 프로젝트 구성이 배치 취소 이외의 다른 상태에 있는 경우, 조치 열에서 배치 취소 아이콘을 클릭하여 프로젝트 구성을 배치 취소하십시오.
4. 조치 열에서 삭제 아이콘을 클릭하십시오. 프로젝트 구성 삭제 대화 상자가 표시됩니다.
5. 예를 클릭하십시오.

## 결과

---

프로젝트 구성이 삭제되고 더 이상 사용할 수 없습니다.

상위 주제: [프로젝트 관리](#)

# 프로젝트 삭제

---

## 시작하기 전에

---

프로젝트의 공개자, 환경 관리자 또는 테넌트 관리자가 프로젝트를 삭제할 수 있습니다. 프로젝트 공개자는 다른 사용자가 그의 프로젝트를 삭제하도록 허용하는 권한을 부여할 수 있습니다. 환경 관리자는 다른 사용자가 환경의 모든 프로젝트를 삭제하도록 허용하는 권한을 부여할 수 있습니다. 테넌트 관리자는 다른 사용자가 테넌트의 모든 프로젝트를 삭제하도록 허용하는 권한을 부여할 수 있습니다.

## 프로시저

---

1. 수정 탭을 선택하십시오. 프로젝트 페이지가 공개될 수 있는 프로젝트의 목록을 표시합니다.



2. 조치 옆에서 삭제 아이콘을 클릭하십시오. "프로젝트 삭제?" 대화 상자가 표시됩니다.
3. 예를 클릭하십시오.

## 결과

프로젝트가 삭제됩니다. 하지만 이 프로젝트로부터 작성된 모든 프로젝트 구성은 아직 사용 가능합니다.

상위 주제: [프로젝트 관리](#)

# 프로젝트 구성 배치

## 시작하기 전에

프로젝트 구성을 배치 또는 배치 취소하려면 테넌트 관리자 또는 환경 관리자 권한을 갖거나 프로젝트 구성의 공개자여야 합니다.

## 이 태스크 정보

오케스트레이션에 있는 엔드포인트의 유형은 프로젝트 구성을 배치하기 위해 완료해야 하는 단계를 판별합니다. 프로젝트 구성을 배치할 수 있기 전에 프로젝트 구성이 하나 이상의 사용 가능한 오케스트레이션을 포함해야 합니다. 오케스트레이션이 데이터베이스나 웹 서비스 엔드포인트를 포함하는 경우, 프로젝트 구성을 배치할 수 있기 전에 엔드포인트에 대한 자산을 생성해야 합니다.

기본적으로 프로젝트 구성의 모든 오케스트레이션은 사용으로 설정됩니다. 그러므로, 프로젝트 구성의 오케스트레이션이 추가 구성이 필요없고 데이터베이스 또는 웹 서비스 엔드포인트를 액세스하지 않는 경우, 프로젝트 탭 중 하나에 있는 프로젝트 구성 옆에 있는 배치 아이콘을 클릭하여 프로젝트 구성을 배치할 수 있습니다. 프로젝트 구성이 자산 또는 추가 구성이 필요한 경우 다음 배치 프로시저를 참조하십시오.

참고: 사용자가 프로젝트 구성을 배치 취소하려면 프로젝트 구성이 중지된 상태에 있어야 합니다.

## 프로시저

1. 프로젝트를 공개한 환경 탭을 선택하십시오.
2. 프로젝트 구성 섹션에서 배치하려는 프로젝트 구성을 선택하십시오. 구성 세부사항 페이지가 표시됩니다.
3. 오케스트레이션 섹션에서 프로젝트 구성의 하나 이상의 오케스트레이션이 사용으로 설정되는지 확인하십시오. 필요에 따라 오케스트레이션 설정을 편집하십시오.

프로젝트 구성이 실행 중인 동안에는 오케스트레이션 설정을 편집할 수 없습니다. 구성 설정을 편집하려면 프로젝트 구성을 중지하고 배치 취소하십시오.

4. 특성 섹션에서 필요에 따라 구성 특성을 편집하십시오.

프로젝트 구성이 실행 중인 동안에는 구성 특성을 편집할 수 없습니다. 구성 설정을 편집하려면 프로젝트 구성을 중지하고 배치 취소하십시오.

5. 프로젝트 구성이 데이터베이스 또는 웹 서비스 엔드포인트를 포함하는 경우 이들 엔드포인트에 대한 자산을 생성해야 합니다.
6. 옵션: 스케줄 정지 시간 규칙을 추가하십시오.
7. 옵션: 프로젝트 구성에 대한 권한을 지정하십시오. 이것은 프로젝트 구성을 편집 및 배치할 수 있는 사용자의 그룹을 지정합니다. 기본적으로, 테넌트 관리자, 환경 관리자 및 프로젝트 구성의 공개자는 프로젝트 구성을 편집 및 배치할 수 있습니다.

- 권한을 지정하는 경우 저장을 클릭하십시오.
- 요약 섹션에서 배치 아이콘(▶)을 클릭하여 프로젝트 구성을 배치하십시오.

## 결과

---

프로젝트 구성이 배치되고, 런타임이 오케스트레이션 작업을 처리하기 시작하며, 상태가 요약 섹션에서 적절하게 업데이트됩니다.

상위 주제: [프로젝트 관리](#)

## 프로젝트 구성 특성 편집

---

### 시작하기 전에

---

구성 특성을 편집하려면 관리자 또는 공개자 권한이 있어야 합니다.

### 이 태스크 정보


---

프로젝트를 클라우드의 환경에 공개하기 전에 Studio에서 통합 프로젝트에 대한 구성 특성을 작성합니다. 프로젝트를 공개할 때 구성 특성에 대한 값을 지정할 수 있습니다. 구성 특성을 사용하면 프로젝트 구성을 스테이징 환경에서 프로덕션 환경으로 이동할 수 있습니다.

예를 들어, 데이터베이스 엔드포인트를 포함하는 프로젝트에서 데이터베이스 연결 매개변수에 대한 특성을 작성할 수 있습니다. 그러면 테스트 데이터베이스에 연결하는 테스트 환경에 대한 프로젝트 구성을 작성한 후 동일한 프로젝트를 사용하여 또 다른 데이터베이스에 연결하는 프로덕션 환경에 대한 또 다른 프로젝트 구성을 작성할 수 있습니다.

### 프로시저

---

- 프로젝트 구성이 공개되는 환경 탭을 선택하십시오.
- 탐색 분할창에서 저장소 > 구성을 선택하십시오. 프로젝트 구성 페이지가 표시됩니다.
- 편집하려는 프로젝트 구성이 실행 중인 경우, 조치 열에서  중지 아이콘을 클릭하여 프로젝트 구성을 중지하십시오. 구성 중지 대화 상자가 표시될 때 다음 옵션 중 하나를 클릭하십시오.
  - 작업 완료 - 지정된 시간에, 현재 작업이 처리를 완료하도록 허용하면서 임의의 새 오케스트레이션 작업이 시작하지 못하게 합니다. 작업이 종료하도록 허용합니다.
  - 작업 취소 - 지정된 시간에 모든 새 오케스트레이션 작업이 시작하지 못하게 하고 현재 실행 중인 모든 작업을 중지합니다. 이 조치는 모든 작업을 즉시 중지합니다.
- 편집하려는 프로젝트 구성을 클릭하십시오. 구성 세부사항 페이지가 표시됩니다.
- 특성 섹션에서 편집을 클릭하여 구성 특성 값을 편집하십시오.
- 구성 특성을 수정하십시오.
- 저장을 클릭하십시오.

## 결과

---

구성 세부사항 페이지가 업데이트된 구성 특성 값을 표시합니다.

상위 주제: [프로젝트 관리](#)

## 프로젝트 편집

---

## 이 태스크 정보

Studio 클라우드를 사용하여 클라우드의 프로젝트를 편집할 수 있습니다.

## 프로시저

1. 수정 탭에서 프로젝트 이름을 클릭하십시오. Studio 클라우드가 열립니다.
2. 필요에 따라 프로젝트를 편집하십시오.
3. 저장을 클릭하십시오.

상위 주제: [프로젝트 관리](#)

## 데이터베이스 자산 정보

사용자가 사용하는 데이터베이스 엔드포인트의 유형이 생성되어야 하는 자산을 판별합니다. 다음 표는 각 지원되는 데이터베이스에 대해 생성되는 자산을 표시합니다.

참고: Cast Iron에서, 30문자의 ID 크기를 갖는 자산 테이블이 작성됩니다. 자산 테이블의 경우, Cast Iron이 따르는 형식은 다음과 같습니다. CI\_CT\_<respective-table-name>(제어 테이블의 경우) 및 CI\_BT\_<respective-table-name>(버퍼 테이블의 경우). 그러므로 최대 24문자를 갖는 이름을 갖는 테이블을 사용해야 합니다.

데이터베이스	생성된 자산
<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>• 버퍼 테이블</li><li>• 제어 테이블</li><li>• 트리거</li></ul>
로컬 스테이징 데이터베이스	<ul style="list-style-type: none"><li>• 버퍼 테이블</li><li>• 제어 테이블</li><li>• 색인 테이블</li><li>• 트리거</li></ul>
Oracle	<ul style="list-style-type: none"><li>• 버퍼 테이블</li><li>• 제어 테이블</li><li>• 트리거</li><li>• 시퀀스</li></ul>

자산은 스타터 활동 및 정확히 한 번 전달 옵션을 지정하는 비스타터 활동에 대해서만 생성됩니다. 자산은 최소한 한 번 또는 많아야 한 번 전달 옵션을 지정하는 비스타터 활동의 경우에는 생성되지 않습니다.

참고: 모든 자산이 고유한 이름을 갖도록 하기 위해 활동 ID를 갖는 제어 테이블 이름이 추가됩니다. 이 숫자는 동일한 제어 테이블을 사용하는 오케스트레이션의 복수 엔드포인트를 구별하지 않습니다.

상위 주제: [프로젝트 관리](#)

# 데이터베이스 자산 유효성 검증

## 이 태스크 정보

데이터베이스 자산을 생성하기 전에 자산을 유효성 검증하십시오. 자산을 유효성 검증할 때, 통합 환경이 버퍼 테이블 또는 제어 테이블이 소스 데이터베이스에 존재하는지 여부를 확인하고 테이블 구조가 올바른지 확인합니다.

참고:

트리거 및 시퀀스는 유효성 검증되지 않습니다.

## 프로시저

1. 탐색 분할창에서 저장소 > 구성을 선택하십시오. 프로젝트 구성 페이지가 표시됩니다.
2. 데이터베이스 자산이 필요한 프로젝트 구성을 클릭하십시오. 구성 세부사항 페이지가 표시됩니다.
3. 프로젝트 구성이 배치 취소된 상태에 있는지 확인하십시오.
4. 자산 섹션에서 데이터베이스를 클릭하십시오. 데이터베이스 자산 페이지가 표시됩니다.
5. 유효성 검증하려는 모든 자산을 선택하고 유효성 검증을 클릭하십시오.
6. 리턴된 결과가 다음 단계를 판별합니다. 다음 표는 피드백을 해석하는 방법과 진행 방법을 알려줍니다.
  - 초록색 선택 표시 - 유효함
  - 노란색 경고 부호 = 경고

## 데이터베이스 자산 유효성 검증 피드백

존재 여부	유효 여부	조치
유효함	유효함	자산이 데이터베이스에 존재하고 자산 구조가 Studio에서 작성한 프로젝트 구성과 일치합니다. 이제 프로젝트 구성을 배치할 수 있습니다.
유효함	경고	자산이 데이터베이스에 존재하지만, 자산 구조가 올바르지 않습니다. 데이터베이스 스크립트가 적절한 열을 포함하고 열이 올바른 순서로 되어 있는지 확인하십시오. 오류가 있는 경우 자산을 재작성하십시오.
경고	경고	자산이 소스 데이터베이스 테이블에 존재하지 않습니다. 프로젝트 구성을 배치할 수 있기 전에 자산을 작성해야 합니다.

경고: 고유 ID에서 끝나는 제한조건 이름이 생성됩니다. 그러나, 데이터베이스 테이블 이름의 크기가 18문자보다 큰 경우 제한조건 이름이 잘려서 이름 지정 충돌이 발생합니다. 데이터베이스 테이블 이름이 18문자보다 큰 경우 생성된 데이터베이스 자산 스크립트를 편집하고 제한조건 이름을 고유하게 만드십시오.

## 데이터베이스 자산 생성

### 이 태스크 정보

프로젝트 구성이 배치 취소되어야 그 후에 자산을 유효성 검증 또는 편집할 수 있습니다. 자산을 생성하기 전에 자산을 유효성 검증하십시오.

### 프로시저

1. 탐색 분할창에서 저장소 > 구성을 선택하십시오. 프로젝트 구성 페이지가 표시됩니다.

2. 데이터베이스 자산이 필요한 프로젝트 구성을 클릭하십시오. 구성 세부사항 페이지가 표시됩니다.
3. 프로젝트 구성이 배치 취소된 상태에 있는지 확인하십시오.
4. 자산 섹션에서 데이터베이스를 클릭하십시오. 데이터베이스 자산 페이지가 표시됩니다.
5. 생성하려는 모든 자산을 선택하십시오. 맨 위에 있는 선택란을 선택하여 모든 자산을 선택할 수 있습니다.
6. 생성을 클릭하십시오.
7. 데이터베이스 스크립트를 검토하고 필요에 따라 수정하십시오.

## 프로젝트 공개

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### 시작하기 전에

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프로젝트를 공개하려면 테넌트 관리자, 환경 관리자 또는 환경 공개자여야 합니다.

### 이 태스크 정보

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프로젝트를 공개하면 프로젝트가 Studio에서 런타임 환경으로 업로드됩니다.

### 프로시저

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1. 관리 콘솔에서 수정 탭을 선택하십시오. 프로젝트 페이지가 표시됩니다.
2. 조치 열에서 프로젝트 공개 아이콘을 클릭하십시오. 목록이 테넌트의 모든 환경을 표시합니다.
3. 프로젝트를 공개하려는 환경을 선택하십시오.

### 결과

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확인이 표시됩니다. 프로젝트가 사용자가 선택한 환경에서 사용 가능합니다.

상위 주제: [프로젝트 관리](#)

## 데이터베이스 자산 재작성

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### 이 태스크 정보

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데이터베이스 자산이 존재하지만 그의 구조가 소스 테이블과 일치하지 않는 경우, 프로젝트 구성을 배치할 수 있기 전에 데이터베이스 자산을 재작성해야 합니다.

### 프로시저

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1. 탐색 분할창에서 저장소 > 구성을 선택하십시오. 프로젝트 구성 페이지가 표시됩니다.
2. 데이터베이스 자산이 필요한 프로젝트 구성을 클릭하십시오. 구성 세부사항 페이지가 표시됩니다.
3. 프로젝트 구성이 배치 취소된 상태에 있는지 확인하십시오.
4. 자산 섹션에서 데이터베이스를 클릭하십시오. 데이터베이스 자산 페이지가 표시됩니다.
5. 재작성하려는 자산을 선택하십시오.
6. 재작성을 클릭하십시오.
7. 스크립트를 검토하고 필요에 따라 수정하십시오.

상위 주제: [프로젝트 관리](#)

## 자산 테이블 이름에 대한 필수 따옴표

다음 표는 유효한 자산을 생성하기 위해 자산 특성을 묶는 데 사용해야 하는 따옴표에 관한 정보를 제공합니다.

데이터베이스	필수 따옴표
DB2® AS/400	" "
Informix®	[ ]
Microsoft SQL	[ ]
Oracle	" "
Sybase	[ ]

상위 주제: [프로젝트 관리](#)

## TIP 검토

다운로드한 모든 TIP에 대해 등급을 지정하고 검토를 제공할 수 있습니다.

등급 지정은 1 - 5의 범위에서 주어지는데, 5가 가장 높은 등급입니다. TIP에 대한 등급과 검토를 제출할 때, Studio가 해당 정보를 WebSphere® Cast Iron® 솔루션 저장소로 업로드합니다. 등급은 다른 검토자가 제출한 다른 모든 등급과 함께 결합되고 평균이 특정 TIP의 세부사항 분할창에 표시됩니다.

상위 주제: [프로젝트 관리](#)


## 프로젝트 구성 중지

### 이 태스크 정보

실행 중인 프로젝트 구성을 중지하는 두 가지 방법이 있습니다.

- **중지(작업 완료 허용)** - 작업 완료를 클릭할 때, 현재 작업이 처리를 완료하도록 허용하면서 임의의 새 오케스트레이션 작업이 시작하지 못하게 합니다. 이 조치는 통합 어플라이언스가 완료 후 중지할 수 있게 합니다.
- **중지(실행 중인 작업 취소)** - 작업 취소를 클릭할 때, 임의의 새 오케스트레이션 작업이 시작하지 못하게 막고 현재 실행 중인 모든 작업을 중지합니다. 이 조치는 모든 작업을 즉시 중지합니다.

### 프로시저

1. 프로젝트 구성 페이지에서 프로젝트 구성을 선택하십시오.
2. 조치 열에서 중지 아이콘  을 클릭하십시오. 구성 중지 창이 표시됩니다.
3. 작업 완료 또는 작업 취소를 클릭하여 프로젝트 구성을 중지하십시오.

상위 주제: [프로젝트 관리](#)

## 프로젝트 구성 업로드

### 시작하기 전에

프로젝트 구성을 클라우드로 업로드하려면 테넌트 관리자, 환경 관리자 또는 환경 공개자 권한이 있어야 합니다.

## 이 태스크 정보

프로젝트 구성을 업로드할 때 2단계 프로세스를 사용하여 프로세스를 공개 중입니다. 첫 번째, Studio에서 중간 위치로 프로젝트를 내보냅니다. 그런 다음 관리 콘솔에서 통합 어플라이언스나 클라우드 환경으로 프로젝트를 업로드합니다.

## 프로시저

1. 프로젝트 구성을 업로드하려는 환경 탭을 선택하십시오.
2. 탐색 분할창에서 저장소 > 프로젝트 업로드를 선택하십시오. 프로젝트 구성 업로드 대화 상자가 표시됩니다.
3. 로컬 프로젝트 파일 필드에 프로젝트를 업로드할 경로를 입력하십시오. 찾아보기를 클릭하여 로컬 머신에서 파일을 선택할 수 있습니다.
4. 프로젝트 이름을 지정하십시오. 이름은 42문자를 초과해서는 안되며 어떤 제한된 문자도 포함해서는 안됩니다.
5. 제품 버전 번호를 지정하십시오. 이 필드는 사용자가 Studio에서 지정한 프로젝트 버전으로 채워지지 않습니다. 그러나 우수 사례로서 Studio에서 사용자가 지정한 버전과 일치하는 프로젝트 버전을 지정해야 합니다.
6. 업로드를 클릭하십시오.

## 결과

프로젝트 구성이 프로젝트 구성 페이지에 표시됩니다.

상위 주제: [프로젝트 관리](#)

## 웹 서비스 자산 보기 및 저장

### 이 태스크 정보

관리 콘솔은 서비스 제공 활동을 포함하는 프로젝트 구성에 대한 WSDL 파일을 생성하는데, 이 파일을 보거나 참조를 위해 저장할 수 있습니다. 이 웹 서비스 엔드포인트를 포함하는 프로젝트 구성을 배치하기 전에 올바른지 확인하려면 이 WSDL을 보십시오.

상위 주제: [프로젝트 관리](#)







## 프로젝트 구성에 대한 작업

프로젝트 구성을 위한 다양한 보기를 사용할 수 있습니다.

- **모두** - 프로젝트 구성의 상태와 상관없이 모든 프로젝트 구성의 배치 단계와 상태를 표시합니다. 이 보기에서 프로젝트 구성을 복제 또는 삭제할 수 있습니다.
- **최신** - 가장 최근에 공개 또는 수정된 프로젝트 구성의 배치 단계와 상태를 표시합니다. 이 보기에서 프로젝트 구성을 복제 또는 삭제할 수 있습니다.
- **즐거찾기** - 권한이 있는 프로젝트 구성의 배치 단계와 상태를 표시합니다. 기본적으로 이 보기는 채워지지 않습니다. 최신 보기 또는 모든 보기에서 프로젝트 구성을 명시적으로 추가해야 합니다.
- **내 구성** - 사용자가 공개 또는 복제한 프로젝트 구성(현재 로그인한 사용자가 공개한 구성)의 배치 단계와 상태를 표시합니다.

대시보드에서 또는 탐색 분할창에서 저장소 > 구성 경로를 선택하여 이들 보기에 액세스할 수 있습니다. 구성 필터를 사용하여 목록에서 보기를 선택할 수 있습니다.

다음 표는 다양한 프로젝트 구성 보기에서 사용 가능한 정보를 설명합니다.

프로젝트 구성 보기의 열	설명
구성	공개된 프로젝트 구성을 표시합니다.
실행 중	프로젝트 구성에 대해 현재 실행 중인 작업의 수를 표시합니다.
완료됨	완전히 처리된 프로젝트 구성에 대한 오케스트레이션 작업의 수를 표시합니다.  오케스트레이션 모니터링 데이터가 영구 제거될 때, 오케스트레이션 작업 수가 0으로 재설정됩니다. 로그 영구 제거 매개변수 수정에 관한 자세한 정보는 영구 제거 도움말 주제를 참조하십시오.
오류	프로젝트 구성에 대한 런타임 오류가 발생한 오케스트레이션 작업의 수를 표시합니다.  오케스트레이션 모니터링 데이터가 영구 제거될 때, 오케스트레이션 작업 수가 0으로 재설정됩니다. 로그 영구 제거 매개변수 수정에 관한 자세한 정보는 영구 제거 도움말 주제를 참조하십시오.
총계	실행한 프로젝트 구성에 대한 오케스트레이션 작업의 총 수를 표시합니다.  오케스트레이션 모니터링 데이터가 영구 제거될 때, 오케스트레이션 작업 수가 0으로 재설정됩니다. 로그 영구 제거 매개변수 수정에 관한 자세한 정보는 영구 제거 도움말 주제를 참조하십시오.
조치	<p>프로젝트 구성을 삭제  또는 복제  하기 위한 옵션뿐 아니라 프로젝트 구성의 상태를 표시합니다.</p> <ul style="list-style-type: none"> <li> 이 아이콘을 클릭하면 프로젝트 구성이 배치 및 실행됩니다.</li> <li> 이 아이콘을 클릭하면 런타임이 프로젝트 구성의 오케스트레이션 작업 처리를 일시 중단합니다.</li> <li> 이 아이콘을 클릭하면 프로젝트 구성이 배치 취소됩니다. 프로젝트 구성을 배치 취소할 수 있으려면 먼저 프로젝트 구성을 중지해야 합니다.</li> <li> 이 아이콘을 중지하면 런타임이 프로젝트 구성에 대한 오케스트레이션 작업 처리를 중지합니다.</li> </ul> <p>프로젝트 구성을 중지할 때, 런타임이 모든 현재 실행 중인 작업을 완전히 처리하게 하거나 런타임이 현재 실행 중인 모든 작업을 취소하게 만들 것을 선택할 수 있습니다.</p> <p>★모두 및 최신 보기에서만 사용 가능합니다. 이 아이콘을 클릭하면 프로젝트 구성이 즐겨찾기에 추가됩니다.</p> <p>관리 콘솔이 즐겨찾기에 프로젝트 구성을 표시할 때 이 아이콘은 모두 및 최신 보기에서 프로젝트 구성 옆에서 더 이상 활성이 아닙니다.</p> <p>★이 아이콘을 클릭하면 프로젝트 구성이 즐겨찾기에서 제거되지만, 환경에서 프로젝트 구성을 삭제하지 않습니다. 모두 및 최신 보기에서 프로젝트 구성을 볼 수 있습니다.</p>

상위 주제: [프로젝트 관리](#)



모니터링 주제는 알림 작성 및 관리, 하드웨어 상태 보기, 오케스트레이션 작업 검색, 오케스트레이션 작업 로그 보기에 관한 정보를 제공합니다.

- [웹 관리 콘솔 정보](#)
- [알림 레벨 선택](#)  
알림 레벨은 경보를 트리거할 수 있는 이벤트의 심각도를 정의합니다. 알림 레벨을 지정할 때, 사용자가 선택하는 레벨을 초과하는 오류에 대해서만 경보가 발송됩니다.
- [알림 정책 작성](#)  
알림 정책을 사용하면 특정 시스템에서의 잠재적 오류를 모니터링할 수 있습니다.
- [알림 정책 삭제](#)  
하나 이상의 알림 정책을 삭제할 수 있습니다.
- [알림 정책 편집](#)
- [이메일 알림 정책 사용 설정](#)
- [오케스트레이션 작업 검색](#)
- [하드웨어 상태 보기](#)
- [오케스트레이션 작업 로그 보기](#)  
대시보드는 복수의 탭에 있는 상태, 작업 이벤트의 시간소인 및 키/작업 ID를 포함하여 오케스트레이션 작업에 관한 정보를 표시합니다.
- [SNMP 기본](#)  
SNMP(Simple Network Management Protocol)는 주로 네트워크 관리 시스템에서 관리 주의를 보증하는 조건에 대해 네트워크 디바이스를 모니터링하는 데 사용되는 인터넷 표준 프로토콜입니다. 일반적으로 SNMP를 지원하는 디바이스는 라우터, 스위치, 서버, 워크스테이션 및 프린터를 포함합니다. 이 절은 SNMP 기본을 소개하고 Cast Iron MIB의 개요를 제공합니다.
- [SNMP 수신기 설정](#)  
WMC를 사용하여 오케스트레이션, 보안, 하드웨어 및 기타 같은 런타임 컴포넌트에서 발생하는 이벤트에 대한 알리를 작성할 수 있습니다. 이들 알림에 대한 전달 메커니즘은 트랩이 이벤트에 대해 설정된 SNMP입니다. 이들 이벤트를 검색하려면 어플라이언스에 등록된 수신기나 관리자를 설정해야 합니다. SNMP 수신기를 설정하려면 이 절의 프로시저를 사용하십시오.
- [알림 정책 추가](#)  
알림 정책을 추가할 때, 관리자에게 경보, 정책 위반 및 작업 실행의 상태 변경을 알립니다. SNMP 트랩을 사용하면 알림 시스템이 사용자가 SNMP 가능 써드파티 애플리케이션으로 트랩을 전송할 수 있게 합니다. 알림 정책을 추가하고 이름을 지정하려면 다음 단계를 수행하십시오.
- [자원 이용률 그래프 정보](#)  
자원 이용률 그래프가 용량 계획 및 런타임 환경의 성능 상태 이해를 위해 제공하는 데이터를 사용하는 방법을 설명합니다.
- [하드웨어 성능 상태](#)  
어플라이언스의 하드웨어 성능 상태를 기반으로 알림을 얻으려면 이 섹션의 정보를 사용하십시오.
- [시스템 테스트](#)

## 웹 관리 콘솔 정보

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웹 관리 콘솔(WMC)은 다음을 수행할 수 있는 웹 기반 관리 도구입니다.

- 통합 어플라이언스 관리
- 통합 프로젝트 관리
- 통합 프로젝트 모니터

복수 WMC에서 동일한 통합 어플라이언스에 액세스할 수 있습니다. 그러나, 각 WMC는 한 번에 하나의 통합 어플라이언스만 모니터링하고 관리할 수 있습니다. WMC에서 완료할 수 있는 태스크는 로그인한 사용자 계정에 따라 다릅니다. WMC는 기

본 제공 그룹을 갖는데, 통합 어플라이언스에 대한 액세스를 추가로 제어하는 데 사용할 수 있습니다. 그렇지 않으면 사용자 및 그룹 인증 및 권한 부여를 관리하기 위한 LDAP 서버를 지정할 수 있습니다.

WMC를 통해 통합 어플라이언스에 로그인할 때 대시보드가 나타납니다. 대시보드는 프로젝트 구성 및 작업의 복수 스냅샷 보기, 자원 이용률 그래프, 해결되지 않은 심각한 시스템 오류의 목록, 전체 프로젝트 구성 요약을 제공합니다. 대시보드를 사용하여 작업 키에 의해 오케스트레이션 작업을 검색할 수도 있습니다. 검색 상자는 대시보드의 결과 섹션에 위치합니다.

WMC는 현재 사용자의 이름뿐 아니라 통합 어플라이언스에서 설정된 날짜 및 시간소인을 표시합니다. 이 날짜 및 시간소인이 반드시 로컬 날짜 및 시간을 나타내지는 않습니다. 예를 들어, 통합 어플라이언스는 GMT로 설정됩니다. 그러나 PST 시간대에 있는 캘리포니아 샌프란시스코에 있는 WMC로부터 이 통합 어플라이언스에 로그인할 수 있습니다. 명령 인터페이스(CLI)를 사용하여 통합 어플라이언스의 시간대를 수정하십시오.

상위 주제: [모니터링](#)

## 알림 레벨 선택

알림 레벨은 경보를 트리거할 수 있는 이벤트의 심각도를 정의합니다. 알림 레벨을 지정할 때, 사용자가 선택하는 레벨을 초과하는 오류에 대해서만 경보가 발송됩니다.

참고: 이벤트에 대한 알림을 수신하지 않는 경우 알림을 트리거하는 항목을 생성하도록 시스템 로그 레벨을 설정하지 않았을 수 있습니다. 예를 들어, 배치에 대해 오류 레벨을 선택한 경우 배치 시스템에서 오류 또는 위험 레벨인 모든 이벤트가 로그됩니다.

다음 알림 레벨을 지정할 수 있습니다.

알림 레벨	설명
위험	오류 조건이 시스템 종료로 유발할 때 경보를 발송합니다.
오류	즉시 처리되어야 하는 위험하지 않은 문제가 발생할 때 경보를 발송합니다.
경고	잠재적인 오류 조건이 발생할 때 경보를 발송합니다.
정보	정보 사용법에 대한 경보를 발송합니다.

상위 주제: [모니터링](#)

## 알림 정책 작성

알림 정책을 사용하면 특정 시스템에서의 잠재적 오류를 모니터링할 수 있습니다.

### 이 태스크 정보

알림 정책을 작성할 때, 알림 정책은 사용자가 지정하는 시스템에 대한 시스템 로그를 모니터링합니다. 알림 정책의 알림 레벨을 만족하거나 초과하는 시스템 로그 이벤트가 발생할 때, 지정된 사용자에게 경보가 발송됩니다.

참고: 이벤트에 대한 알림을 수신하지 않는 경우, 알림을 트리거하는 항목을 생성하도록 설정된 시스템 로그 레벨을 갖지 않거나 알림 정책을 사용으로 설정하지 않았을 수 있습니다. 시스템 로그 설정에 대한 자세한 정보는 "[시스템 로그 설정 지정](#)"을 참조하십시오. 이메일 알림 정책 사용 설정에 대한 자세한 정보는 "[이메일 알림 정책 사용 설정](#)"을 참조하십시오.

### 프로시저

1. 알림 정책을 작성할 환경을 클릭하십시오. 탐색 분할창이 표시됩니다.
2. 로그 > 알림을 선택하십시오. 알림 페이지가 표시됩니다.
3. 새 정책을 클릭하십시오. 새 정책 대화 상자가 표시됩니다.
4. 정책 이름을 입력하십시오.
5. 레벨 초과 목록에서 레벨을 선택하십시오. 사용자가 선택하는 레벨을 초과하는 오류에 대해서만 경보가 발송됩니다.
6. 시스템 목록에서 알림 정책이 모니터링하기 원하는 시스템을 선택하십시오.
7. 이메일 알림을 받을 사용자의 이메일 주소를 하나 이상 지정하십시오. 복수의 이메일 주소가 있으면 해당 하나의 이메일 주소를 추가하십시오.
8. 저장을 클릭하십시오.

## 결과

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새 정책이 알림 페이지에 표시됩니다. 이메일 알림을 사용으로 설정한 후에야 경보가 발송될 수 있습니다. 이메일 상태가 (비활성)으로 표시되는 경우 이메일 알림이 사용으로 설정되지 않았습니니다.

상위 주제: [모니터링](#)

## 알림 정책 삭제

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하나 이상의 알림 정책을 삭제할 수 있습니다.

### 프로시저

---

1. 알림 정책을 삭제할 환경을 클릭하십시오. 탐색 분할창이 표시됩니다.
2. 로그 > 알림을 선택하십시오. 알림 페이지가 표시됩니다.
3. 삭제하려는 정책에 대한 선택란을 선택하십시오.

복수 정책을 삭제하려면 맨 위 선택란을 선택하십시오. 모든 정책이 선택됩니다.

4. 삭제를 클릭하십시오. 정책 삭제? 확인 창이 표시됩니다.
5. 예를 클릭하십시오.

## 결과

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정책이 삭제되고 더 이상 알림 페이지에 표시되지 않습니다.

상위 주제: [모니터링](#)

## 알림 정책 편집

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### 프로시저

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1. 탐색 분할창에서 로그 > 알림을 선택하십시오. 알림 페이지가 표시됩니다.
2. 알림 정책을 클릭하십시오. 정책 편집 대화 상자가 표시됩니다.
3. 적당한 알림 설정을 업데이트하십시오.
4. 저장을 클릭하십시오.

## 결과

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업데이트된 정책이 알림 페이지에 표시됩니다. 경보를 발송할 수 있기 전에 이메일 알림을 사용으로 설정해야 합니다. 이메일 상태가 (비활성)으로 표시되는 경우 이메일 알림이 사용으로 설정되지 않았습니다.

상위 주제: [모니터링](#)

## 이메일 알림 정책 사용 설정

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### 이 태스크 정보

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이메일 알림 정책을 작성할 때 경보가 발송되도록 이메일 알림 정책을 사용으로 설정해야 합니다. 기본적으로, 이메일 알림은 사용으로 설정되지 않습니다.

이메일 알림 정책을 사용으로 설정하는 경우, 이메일 알림을 작성할 때 지정한 설정이 이메일 알림이 발송되는 시기를 판별합니다.

참고: 이메일 사용 설정 옵션을 선택 취소하여 이메일 알림 정책을 사용 안함으로 설정하는 경우, 모든 이메일 알림 정책에 대해 경보가 발송되지 않습니다.

### 프로시저

---

1. 이메일 알림 정책을 사용으로 설정할 환경을 클릭하십시오. 탐색 분할창이 표시됩니다.
2. 로그 > 알림을 선택하십시오. 알림 페이지가 표시됩니다.
3. 페이지의 맨 위에서 이메일 링크를 클릭하십시오. 이메일 사용 옵션이 표시됩니다.
4. 이메일 사용 옵션을 클릭하십시오.
5. 옵션: 발송된 경보를 규정할 이메일 제목 행을 제공하십시오.
6. 저장을 클릭하십시오.

### 결과

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알림 페이지가 새 정책을 표시하며 이메일 상태가 (비활성)에서 (활성)으로 변경됩니다. 이메일 알림은 이제 알림 정책을 트리거하는 이벤트가 발생할 때 발송됩니다.

상위 주제: [모니터링](#)

## 오케스트레이션 작업 검색

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### 이 태스크 정보

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작업 ID와 키를 사용하여 오케스트레이션 작업을 검색할 수 있습니다. 커넥터를 구성할 때 Studio에서 기본 메시지 키를 정의합니다. 기본 메시지 키는 고유한 값이어야 합니다. 예를 들어 구매 주문 메시지의 경우 구매 주문 번호입니다. 기본 키를 정의하지 않은 경우 런타임은 런타임이 생성하는 고유한 번호인 작업 ID를 사용하여 오케스트레이션 작업을 식별합니다.

관리 콘솔에서 작업 ID로 오케스트레이션 작업을 검색할 수 있습니다. 기본적으로, 관리 콘솔은 사용자가 지정하는 작업 ID와 일치하는 완료된 오케스트레이션 작업에 대해서만 검색합니다. 다른 모든 오케스트레이션 작업을 검색하려면 고급 검색 옵션을 사용하십시오.

### 프로시저

---

1. 탐색 분할창에서 대시보드를 선택하십시오.

2. 결과 섹션에서 키 검색 필드에 작업 ID를 입력하십시오.
3. 키보드에서 Enter를 누르십시오. 일치하는 작업 ID를 갖는 완료된 작업이 표시됩니다.

상위 주제: [모니터링](#)

## 고급 검색 사용

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### 이 태스크 정보

---

작업 검색을 더 정제하려면 고급 검색 옵션을 사용하십시오. 고급 검색 상자의 복수 필드에 대한 값을 입력하면 관리 콘솔은 AND 로직을 사용하여 검색을 정제합니다.

예를 들어, 오류를 갖는 상태를 선택하는 것 외에 시간 범위를 지정합니다. 관리 콘솔은 지정된 시간 범위 안에서 오류를 가진 모든 오케스트레이션 작업을 검색합니다.

참고: 날짜 및 시간별로 검색할 것을 선택하는 경우 시작 및 종료 날짜 및 시간을 지정해야 합니다.

### 프로시저

---

1. 탐색 분할창에서 대시보드를 선택하십시오.
2. 결과 섹션에서 오케스트레이션을 선택하십시오. 오케스트레이션 세부사항 페이지가 오케스트레이션과 연관된 모든 작업을 표시합니다.
3. 고급 검색 상자에서 검색에 적합한 작업 ID, 키, 상태, 시작 날짜 및 시간 또는 종료 날짜 및 시간에 대한 값을 지정하십시오.  
참고: 날짜 및 시간별로 검색할 것을 선택하는 경우 시작 및 종료 날짜 및 시간을 지정해야 합니다.
4. 검색을 클릭하십시오.

### 결과

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검색 결과가 테이블에 표시됩니다.

## 하드웨어 상태 보기

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WMC에서 통합 어플라이언스 자원 이용률과 하드웨어 성능 상태를 모니터링할 수 있습니다.

### 자원 이용률 보기

---

통합 어플라이언스 CPU 사용량, 메모리 사용량, 디스크 공간 사용량을 보려면 시스템 > 하드웨어 상태를 선택하십시오. 자원 이용률 페이지가 표시됩니다.

WMC는 나열된 각 자원 이용률 카테고리에 대해 사용량 백분율을 표시합니다. 카테고리가 복수 CPU 같은 복수 컴포넌트를 포함하는 경우 표시되는 백분율은 표시되는 모든 컴포넌트의 평균입니다. 대시보드에서 WMC는 통합 어플라이언스 자원 이용률 데이터의 그래픽 요약물을 제공합니다. 자원 이용률 그래프 해석에 대한 자세한 정보는 [웹 관리 콘솔 정보](#)의 내용을 참조하십시오.

### 하드웨어 성능 상태 보기

---

통합 어플라이언스 하드웨어 컴포넌트에 관한 상태를 보려면 시스템 > 하드웨어 상태를 선택하십시오. 하드웨어 성능 상태 페이지가 팬, 온도, 디스크 및 네트워크 링크의 상태를 표시합니다. 초록색 선택 표시는 컴포넌트가 정상적으로 작동 중임을

표시합니다.

상위 주제: [모니터링](#)

## 오케스트레이션 작업 로그 보기

대시보드는 복수의 탭에 있는 상태, 작업 이벤트의 시간소인 및 키/작업 ID를 포함하여 오케스트레이션 작업에 관한 정보를 표시합니다.

- **모두** - 모든 프로젝트 구성에 대한 오케스트레이션 작업 정보를 표시합니다.
- **최근** - 가장 최근에 공개 또는 수정된 프로젝트 구성에 대한 오케스트레이션 작업 정보를 표시합니다.
- **즐거찾기** - 즐겨찾기 필터에 표시되는 프로젝트 구성에 대한 오케스트레이션 작업 정보를 표시합니다. 이 필터를 통해 표시되는 오케스트레이션 작업 정보는 최신 및 모두 필터에도 표시됩니다.

일부 경우에는 오케스트레이션 작업이 성공적으로 완료한 경우에도 관리 콘솔이 `Unknown`의 오케스트레이션 작업 상태를 표시합니다. 오케스트레이션 작업이 처리 중인 동안 환경을 다시 부팅하면 다시 부팅 중에 모니터링 데이터가 유실되기 때문에 알 수 없음 상태가 발생할 수 있습니다. 알 수 없음 상태를 피하기 위해 환경을 다시 부팅하기 전에 모든 오케스트레이션 작업을 중지하십시오.

해당 오케스트레이션에 대한 오케스트레이션 세부사항을 보려면 오케스트레이션 작업을 클릭하십시오. 오케스트레이션 세부사항 페이지는 사용자가 선택한 오케스트레이션과 연관된 모든 작업 및 각 개별 작업의 상태를 표시합니다. 모든 오케스트레이션 작업을 보려면 왼쪽 및 오른쪽 화살표(<<, <, >, >>)를 사용하십시오.

상위 주제: [모니터링](#)

## 오케스트레이션 작업 정렬

### 이 태스크 정보

작업 ID로 오케스트레이션 작업을 검색할 수 있습니다. 프로젝트 구성 이름, 오케스트레이션 이름, 상태, 시간 또는 작업 ID 별로 오케스트레이션 작업을 정렬하려면 적당한 열 헤더를 클릭하십시오.

## SNMP 기본

SNMP(Simple Network Management Protocol)는 주로 네트워크 관리 시스템에서 관리 주의를 보증하는 조건에 대해 네트워크 디바이스를 모니터링하는 데 사용되는 인터넷 표준 프로토콜입니다. 일반적으로 SNMP를 지원하는 디바이스는 라우터, 스위치, 서버, 워크스테이션 및 프린터를 포함합니다. 이 절은 SNMP 기본을 소개하고 Cast Iron MIB의 개요를 제공합니다.

SNMP의 어휘에서, Cast Iron 통합 어플라이언스는 "네트워크 요소" 또는 "관리 디바이스"로 참조되어 네트워크의 구성원이며 관리할 수 있음을 표시합니다. 네트워크 요소에는 요소에 관한 정보를 제공하는 *에이전트*가 포함됩니다. 에이전트는 두 가지 핵심 기능을 수행합니다. 첫 번째, 관리 시스템의 요청에 응답하고 두 번째로 네트워크 요소의 이벤트에 관한 알림을 발송합니다. 에이전트에서 관리자로의 비동기 알림은 *트랩*으로 부릅니다.

SNMP 트랩은 에이전트가 요청되지 않은 SNMP 메시지를 통해 관리 스테이션에 중요한 이벤트를 알릴 수 있습니다. 폴링 또는 트랩을 통해 제공되는 정보는 MIB(Management Information Base)에서 정의됩니다. MIB는 통신 네트워크에서 엔티티 관리에 사용되는 가상 데이터베이스입니다. MIB는 고유한 오브젝트 ID(OID)를 갖는 각 오브젝트로 오브젝트 계층 구조를 정의합니다. OID는 마침표로 구분된 숫자로 지정됩니다(예: ".1.3.6.1.2.1.1"). OID를 때로는 공통 이름이라고 부릅니다. 예를 들어, 특정 OID .1.3.6.1.2.1.1을 "시스템"으로 참조할 수 있습니다. SNMP 프로토콜은 많은 공용 MIB를 정의하며, 조직이 사용자 정의된 애플리케이션 특정 MIB를 정의할 수 있게 합니다.

## Cast Iron MIB 이해

Cast Iron WMC에서 다운로드된 파일은 복수의 MIB DEFINITIONS = BEGIN - END 섹션을 갖습니다. 각 섹션이 고유한 계층 구조로 MIB를 구성합니다. Cast Iron 특정 정보를 폴링하려면 CASTIRON-IA-MIB를 사용하십시오. 각 MIB는 MIB 기능을 설명하는 MODULE-IDENTITY를 갖습니다. MODULE-IDENTITY 뒤에 오는 주석 섹션은 MIB 콘텐츠의 개요를 제공하며 모든 MIB 오브젝트의 이름과 OID를 나열하는 오브젝트 요약의 섹션을 포함합니다.

참고: NET-SNMP에 의해 제공되는 것 같은 일부 도구는 각 MIB가 단일 파일로 분할되어야 합니다. MIB 분할에 대한 자세한 정보는 [SNMP 수신기 설정](#)의 내용을 참조하십시오.

CASTIRON-IA-MIB의 오브젝트 요약의 섹션은 다음과 같습니다.

```
-- 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
```

표시된 것처럼, ciIaProjectSummary라는 조직 노드(이 경우에는 디렉토리나 비슷한 OBJECT-IDENTITY)가 프로젝트에 관한 일반 정보를 포함합니다. 해당 "디렉토리" 안에 프로젝트 수, 실행 중 및 중지된 오케스트레이션의 수 등을 포함하는 특정 항목(OBJECT-TYPE)이 있습니다. 이들 항목의 의미에 대한 자세한 정보를 알려면 항목의 이름에 대해 파일을 검색하십시오. 예를 들어, ciIaNbrRunningJobs에 관한 정보를 얻으려면 파일에서 다음과 같은 해당 문자열을 검색합니다.

```
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 }
```

핵심 영역은 다음과 같습니다.

- ciIaNbrRunningJobs OBJECT-TYPE - 오브젝트의 이름을 정의합니다. 끝에 OID의 단축 양식을 제공하는 주석이 있음을 참조하십시오.
- SYNTAX Unsigned32 - 이것은 해당 값이 오르거나 내릴 수 있는 부호 없는 정수입니다.
- MAX-ACCESS read-only - 읽기 전용 값입니다. 관리자가 요청할 수 있지만 변경할 수 없습니다.
- DESCRIPTION - 오브젝트를 설명합니다.

다음 예는 ProjectSummary 정보에 대해 폴링할 때 표시되는 데이터를 설명합니다.

```
$ 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
```

다음 데이터는 lciIaProjectTable을 폴링할 때 표시됩니다.

```
-- 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                ciia.1.1.2.1.3
```

```
--      ciIaProjEntryConfig          ciia.1.1.2.1.4
--      ciIaProjEntryState           ciia.1.1.2.1.5
--      ciIaProjEntryNbrRunning      ciia.1.1.2.1.6
--      ciIaProjEntryNbrCompleted    ciia.1.1.2.1.7
--      ciIaProjEntryNbrErrored      ciia.1.1.2.1.8
--      ciIaProjEntryTimePublished   ciia.1.1.2.1.9
```

SNMP 테이블이 인증 확인 중일 수 있습니다. SNMP 테이블은 데이터베이스 스키마와 비슷하게 어플라이언스의 각 프로젝트에 관한 이름, 버전, 구성, 상태 및 기타 정보를 표시합니다. 각 항목 이름(예: ciIaProjEntryName, ciIaProjEntryVersion)은 테이블의 열을 설명합니다. 각 항목에 대한 추가 정보를 찾기 위해 MIB에서 해당 문자열을 검색할 수 있습니다. 참고: 반복적인 방식으로 프로젝트 테이블을 "탐색"하려고 시도하면 문제가 발생할 수 있습니다. 대신, 테이블 정보를 볼 때 항상 테이블을 이해하는 도구 기능을 사용하십시오. 다음 예는 "탐색" 기술을 설명합니다. 이 경우에 프로젝트가 공개된 후에 새 구성을 작성하기 위해 복제되어 두 개의 테이블 행이 생성되었습니다. 출력이 표시하는 것처럼, 어떤 항목이 특정 행과 연관되는지를 이해하는 것은 어렵습니다. 이 경우 항목 및 행의 올바른 배열을 판별하기 위해 색인(OID의 마지막 부분)을 보아야 합니다.

```
$ 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
```

정보가 snmptable 명령을 사용하여 맵핑될 때 다음 예에서 보는 것처럼 더 명확하게 표시됩니다.

```
$ 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

이들 예는 OID가 아닌 텍스트 이름을 사용함을 참고하십시오. MIB의 기능이 OID와 텍스트 이름 사이를 맵핑하는 것이기 때문에 정기적으로 OID를 사용할 필요가 없습니다.

**상위 주제: 모니터링**



# SNMP 수신기 설정

WMC를 사용하여 오케스트레이션, 보안, 하드웨어 및 기타 같은 런타임 컴포넌트에서 발생하는 이벤트에 대한 알림을 작성할 수 있습니다. 이들 알림에 대한 전달 메커니즘은 트랩이 이벤트에 대해 설정된 SNMP입니다. 이들 이벤트를 검색하려면 어플라이언스에 등록된 수신기나 관리자를 설정해야 합니다. SNMP 수신기를 설정하려면 이 절의 프로시저를 사용하십시오.

## 이 태스크 정보

SNMP 수신기를 설정할 때, MIB를 다운로드 및 분할하고 구성 파일을 작성하고 알림을 사용으로 설정하고 알림 정책을 추가한 후 시스템을 테스트합니다.

## 프로시저

1. **WMC: 로그-> 알림 -> SNMP**를 클릭하십시오.
2. 대화 상자에서 **MIB 다운로드**를 클릭하십시오.
3. 수신기가 되도록 지정한 머신에 MIB를 추가하십시오.
4. 다음 스크립트를 실행하여 MIB를 논리 장치로 분할하십시오. 참고: 스크립트는 파일이 로컬 디렉토리에 있고 다운로드한 파일이 castironsys.mib로 이름 지정된다고 가정합니다.

```
#!/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. 선택한 SNMP 관리자를 설정하십시오.
6. **WMC: 로그-> 알림 -> SNMP**를 선택하여 SNMP 알림을 사용으로 설정하십시오. **SNMP 사용** 선택란이 선택되었는지 확인하십시오.
7. 수신기 호스트 이름을 추가하십시오.
8. 트랩 커뮤니티를 **public**으로 설정하십시오. 이것은 /etc/snmp/snmptrapd.conf에서 **authCommunity** 항목으로 정의됩니다.
9. **저장**을 클릭하십시오.

상위 주제: [모니터링](#)

## 알림 정책 추가

알림 정책을 추가할 때, 관리자에게 경고, 정책 위반 및 작업 실행의 상태 변경을 알립니다. SNMP 트랩을 사용하면 알림 시스템이 사용자가 SNMP 가능 써드파티 애플리케이션으로 트랩을 전송할 수 있게 합니다. 알림 정책을 추가하고 이름을 지정하려면 다음 단계를 수행하십시오.

## 프로시저

1. **정책** 탭을 클릭하십시오.
2. 화면의 맨 아래 왼쪽에 있는 **새 정책** 링크를 클릭하고 정책에 이름을 부여하십시오.
3. **알림** 시기 행에서 레벨 및 시스템을 선택하십시오. **알림** 섹션의 **SNMP** 선택란이 선택되었는지 확인하십시오.
4. **저장**을 클릭하십시오.

다음 표는 미분류 트랩을 통해 전달되는 시스템, 레벨 및 메시지를 보여줍니다. 미분류 트랩은 CASTIRON-IA-MIB::ciIaUncategorizedEv, Enterprise 1.3.6.1.4.1.13336.2.2.2.1.1.10, Trap 1로 이름 지정됩니다.

표 1.

헤더	헤더	헤더
네트워크	경고	자동으로 호스트 이름을 /etc/hosts에 추가했습니다. "net show etchost"를 참조하십시오.
하드웨어	경고	팬이 기능하지 않습니다. 팬: {0} 현재 속도: {1} rpm 최소 필수 속도: {2} rpm 최대 허용 속도: {3} rpm 머신 ID: {4}
하드웨어	정보	팬이 기능합니다. 팬: {0} 현재 속도: {1} rpm 최소 필수 속도: {2} rpm 최대 허용 속도: {3} rpm 머신 ID: {4}
하드웨어	위험	온도가 범위를 벗어났습니다. 온도 센서: {0} 현재 온도: 섭씨 {1}도 최소: 섭씨 {2}도 최대: 섭씨 {3}도 머신 ID: {4}
하드웨어	정보	온도가 복원됩니다. 온도 센서: {0} 현재 온도: 섭씨 {1}도 최소: 섭씨 {2}도 최대: 섭씨 {3}도 머신 ID: {4}
하드웨어	경고	전원이 중단되었습니다. 머신 ID: {1}
하드웨어	정보	전원이 복원되었습니다. 머신 ID: {1}
하드웨어	경고	통합 어플라이언스 {0}이(가) 열렸습니다. 머신 ID: {1}
하드웨어	정보	통합 어플라이언스 {0}이(가) 닫혔습니다. 머신 ID: {1}
하드웨어	위험	RAID 어레이 {0}이(가) 오프라인입니다. 머신 ID: {1}
하드웨어	심각	RAID 어레이 {0}이(가) 아마 디스크 실패 때문에 저하됩니다. 머신 ID: {1}
하드웨어	정보	RAID 어레이 {0}이(가) 최적입니다. 머신 ID: {1}
하드웨어	위험	{1} 어레이의 RAID 디스크 {0}이(가) 실패했습니다. 머신 ID: {2}
하드웨어	정보	{1} 어레이의 RAID 디스크 {0}이(가) 다시 빌드 중입니다. 다시 빌드가 완료될 때까지 디스크를 제거하지 마십시오. 머신 ID: {2}
하드웨어	정보	{1} 어레이의 RAID 디스크 {0}이(가) 온라인입니다. 머신 ID: {2}
하드웨어	경고	고가용성 시스템 장애 복구 성공
하드웨어	정보	네트워크 인터페이스 링크 작동. {0} 네트워크 인터페이스가 작동합니다. 머신 ID: {1}
하드웨어	경고	네트워크 인터페이스 링크 작동 중지. {0} 네트워크 인터페이스가 작동 중지됩니다. 머신 ID: {1}
하드웨어	위험	올바르지 않은 CPU 수: {0}을(를) 예상했지만 {1} 발견
자원	정보	스왑 공간 모니터링 오류가 발생했습니다.
자원	정보	{0}초 동안 스왑 공간 모니터링을 일시중단 중입니다.
자원	정보	스왑 공간 사용량이 이제 {0}% 경고 임계값 미만입니다. 현재 사용량은 {1}.{2}%
자원	정보	스왑 공간 사용량이 이제 {0}% 위험 임계값 미만입니다. 현재 사용량은 {1}.{2}%
자원	경고	스왑 공간 사용량이 {0}% 경고 임계값을 초과했습니다. 현재 사용량은 {1}.{2}%
자원	위험	스왑 공간 사용량이 {0}% 위험 임계값을 초과했습니다. 현재 사용량은 {1}.{2}%

헤더	헤더	헤더
자원	정보	디스크 공간 모니터링 오류가 발생했습니다.
자원	정보	{0}초 동안 디스크 공간 모니터링을 일시중단 중입니다.
자원	정보	{0} 디스크 공간 사용량이 지금 {1}% 경고 임계값 미만입니다. 현재 사용량은 {2}.{3}%
자원	정보	{0} 디스크 공간 사용량이 지금 {1}% 위험 임계값 미만입니다. 현재 사용량은 {2}.{3}%
자원	경고	{0} 디스크 공간 사용량이 지금 {1}% 경고 임계값을 초과했습니다. 현재 사용량은 {2}.{3}%
자원	위험	{0} 디스크 공간 사용량이 지금 {1}% 위험 임계값을 초과했습니다. 현재 사용량은 {2}.{3}%
자원	위험	HA 피어가 CIOS의 다른 버전을 실행 중입니다!

상위 주제: [모니터링](#)

## 자원 이용률 그래프 정보

자원 이용률 그래프가 용량 계획 및 런타임 환경의 성능 상태 이해를 위해 제공하는 데이터를 사용하는 방법을 설명합니다.

자원 이용률 그래프는 다음 변수를 추적하는데, 런타임의 전체 성능 상태를 분석하고 추가 프로젝트 및 오케스트레이션에 대해 사용 가능한 용량을 계산하기 위해 사용할 수 있습니다.

- 사용한 디스크 %
- 사용된 메모리 %
- GC 활동
- 실행 중인 작업 수

### 사용한 디스크 %

이 변수는 오케스트레이션 작업 변수 및 히스토리 데이터가 사용하는 디스크 공간의 백분율을 추적합니다.

오케스트레이션 작업을 실행할 때 런타임은 디스크를 사용하여 해당 작업에 대한 변수 데이터를 저장합니다. 지속성을 사용으로 설정할 때, 통합 어플라이언스가 런타임 재시작을 필요로 하는 결함을 만나는 경우 작업에 대해 저장된 변수 데이터는 통합 어플라이언스가 오케스트레이션 작업의 특정 시점 복구를 제공할 수 있습니다.

런타임은 또한 오케스트레이션 작업에 관한 히스토리 데이터를 저장하는데, 이것은 웹 관리 콘솔(WMC) 작업 로그 페이지에서 볼 수 있습니다.

사용 가능한 디스크 공간의 양이 너무 작아지는 경우, 통합 어플라이언스가 지정된 사용자로 알림을 발송하는 경보를 생성합니다.

### 사용된 메모리 %

통합 어플라이언스는 오케스트레이션을 실행하기 위한 고정된 양의 사용 가능 메모리를 갖습니다. 사용된 메모리 % 변수는 오케스트레이션 작업이 사용하는 이 고정 메모리의 양과 대응하는 변수 데이터를 추적합니다. 오케스트레이션 작업 및 변수 데이터에 할당된 메모리가 더 이상 사용되지 않고 있을 때, 메모리는 가비지 콜렉션이라고 부르는 프로세스를 사용하여 사용 가능한 메모리의 풀로 리턴됩니다.

사용되는 메모리의 양과 가비지 콜렉션 사이클 사이에는 직접적인 관계가 있습니다. 그러나 높은 메모리 사용량이 반드시 전체 가비지 콜렉션 사이클의 증가를 의미하지는 않습니다.

사용된 메모리의 양에 영향을 주는 요인에 대한 자세한 정보는 [메모리 관리 우수 사례](#)의 내용을 참조하십시오.

## GC 활동

가비지 콜렉션은 완료된 작업이 보유하는 메모리 및 변수 데이터를 다시 모든 오케스트레이션 작업에 의해 사용된 메모리의 풀로 리턴하는 프로세스입니다. 이 가비지 콜렉션 프로세스는 통합 어플라이언스가 새 오케스트레이션 작업이 사용할 수 있는 가능한 메모리의 일정한 공급을 갖도록 보장합니다.

GC 활동 변수는 1분에 발생하는 전체 가비지 콜렉션의 백분율을 추적합니다. 이 백분율은 전체 가비지 콜렉션의 수를 6으로 나누어서 계산됩니다. 이상적으로는 GC 활동은 50% 이하여야 합니다. 즉 분당 3개의 전체 가비지 콜렉션이 있습니다. 분당 6개 이상의 전체 가비지 콜렉션이 발생할 때 오케스트레이션 성능이 심각하게 저하됩니다.

가비지 콜렉션 및 가비지 콜렉션에 영향을 주는 요인에 대한 자세한 정보는 [메모리 관리 우수 사례](#)의 내용을 참조하십시오.

## 실행 중인 작업 수

통합 어플라이언스에서 현재 실행 중인 작업의 수를 표시합니다.

상위 주제: [모니터링](#)

## 하드웨어 성능 상태

어플라이언스의 하드웨어 성능 상태를 기반으로 알림을 얻으려면 이 섹션의 정보를 사용하십시오.

첫 번째 미분류 트랩(CASTIRON-IA-MIB::ciIaUncategorizedEv .1.3.6.1.4.1.13336.2.2.2.1.1.10 #1)을 받도록 SNMP 관리자를 준비해야 합니다. 다음으로, 다음 항목을 폴링하도록 SNMP 관리자를 구성하고 조건이 만족될 때 알림을 생성합니다.

표 1.

모니터할 매개변수	권장 임계값	Snmp OID
가비지 콜렉션	이 값이 빨리(1분 기간에 6번이 넘게) 변경되는 경우에 경고합니다.	CASTIRON-IA-MIB::ciIaResNbrGarbageCollects .1.3.6.1.4.1.13336.2.2.2.1.1.2.1.0
메모리 사용량	이 값이 80%(원시 값은 8000)를 넘는 경우에 경고합니다.	CASTIRON-IA-MIB::ciIaResPctMemoryUsed .1.3.6.1.4.1.13336.2.2.2.1.1.2.2.0
디스크 사용량	이 값이 75%(원시 값은 7500)를 넘는 경우에 경고합니다.	CASTIRON-IA-MIB::ciIaResPctWipFull .1.3.6.1.4.1.13336.2.2.2.1.1.2.3.0

## 가비지 콜렉션

CASTIRON-IA-MIB::ciIaResNbrGarbageCollects는 시스템이 마지막으로 다시 시작된 이후에 발생한 가비지 콜렉션의 수를 셉니다. 가끔의 가비지 콜렉션은 정상이지만, 분당 6번이 넘는 콜렉션은 과도하며 어플라이언스가 과부하가 걸렸고 결국 성능 문제를 경험할 수 있음을 표시합니다.

```
$ 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
```

## 메모리 사용량

CASTIRON-IA-MIB::ciIaResPctMemoryUsed는 100분의 1 퍼센트로 표현되는 사용 중인 메모리 총계의 백분율을 표시합니다. 이 숫자는 각 가비지 콜렉션 후에 업데이트됩니다.

```
$ 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
```

이 값은 정수(이 경우에는 184)로 제공되지만, MIB가 SNMP 관리자가 그의 표시된 값을 변경하게 만드는 원인이 됨을 주의하십시오. 100분의 1 퍼센트로 표현되는 값은 *대개* 자동으로 수정됩니다. 예를 들어 이 경우에 '1234'는 '12.34'로 표시됩니다. 그러나 SNMP 관리 도구가 이것을 자동으로 처리함을 확인해야 합니다. 그렇지 않은 경우 값은 다음과 같이 나타납니다.

```
$ 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
```

권장사항: 이 값이 80%(원시 값은 8000)를 넘는 경우에 경보하십시오.

## 디스크 사용량

CASTIRON-IA-MIB::ciIaResPctWipFull은 퍼센트의 100분의 1 단위로 표현되는 사용 중인 진행 중인 작업(WIP) 디스크 공간의 총계의 백분율을 표시합니다. 이 숫자가 작업 영구 제거 활동 예측을 위한 키입니다.

```
$ 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
```

권장사항: 이 값이 75%(원시 값은 7500)를 넘는 경우에 경보하십시오.

상위 주제: [모니터링](#)

## 시스템 테스트

시스템을 테스트하려면 올바르게 않은 사용자 신임 정보로 로그인하려고 시도하여 트랩을 생성하십시오. 이 트랩이 SNMP 관리자에 의해 선택되어야 합니다.

상위 주제: [모니터링](#)

## 권한

권한 주제는 사용자 프로필 작성, 비밀번호 설정 및 변경, 사용자 작성 및 관리, 그룹 작성 및 관리에 관한 정보를 제공합니다.

- [기본 제공 그룹 정보](#)  
기본 제공 그룹은 사전 정의된 그룹입니다. 클라우드에서 테넌트 관리자 그룹 외에, 각 환경은 기본 제공 관리자, 공개자 및 사용자 그룹을 갖습니다.
- [라이브러리 환경 정보](#)
- [사용자 프로필 정보](#)  
사용자 프로필은 이름, 표시 이름, 이메일 및 그룹 멤버십 같은 사용자 세부사항의 요약을 제공합니다.
- [그룹에 사용자 지정](#)  
사용자를 그룹에 지정하려면 테넌트 관리자 또는 환경 관리자 권한이 있어야 합니다. 환경 관리자는 해당 특정 환경에 있는 그룹에만 사용자를 추가할 수 있습니다.
- [비밀번호 변경](#)
- [사용자 비밀번호 변경](#)

- **새 그룹 작성**  
클라우드에서 테넌트 관리 사용자만 새 그룹을 작성할 수 있습니다. 복수 환경 테넌트에서는 환경 관리자도 자신의 특정 환경에 대한 새 그룹을 작성할 수 있습니다.
- **새 사용자 작성**  
클라우드에서 테넌트 관리 사용자만 새 사용자를 작성할 수 있습니다. 복수 환경 테넌트에서는 환경 관리자도 자신의 특정 환경에 대한 새 사용자를 작성할 수 있습니다.
- **그룹 삭제**  
클라우드에서는 테넌트 관리 사용자만 클라우드 환경에서 그룹을 삭제할 수 있습니다. 복수 환경 테넌트에서는 환경 관리자도 자신의 특정 환경에 대한 그룹을 삭제할 수 있습니다.
- **사용자 삭제**  
클라우드에서는 테넌트 관리 사용자만 클라우드 환경에서 사용자를 삭제할 수 있습니다. 복수 환경 테넌트에서는 환경 관리자도 자신의 특정 환경에 대한 사용자를 삭제할 수 있습니다.
- **프로젝트 구성 권한 부여**  
프로젝트 구성 권한을 편집하여 사용자 또는 그룹에 권한을 부여할 수 있습니다. 사용자 또는 그룹에 권한을 부여할 때 그들은 프로젝트 구성을 편집하거나 삭제할 수 있습니다.
- **로컬 스테이징 데이터베이스 권한**  
기본 제공되는 관리자 그룹의 일부가 됨으로써 부여되는 관리자 권한을 갖는 사용자만 로컬 스테이징 데이터베이스를 시작, 중지 및 조작을 수행할 수 있습니다.

## 기본 제공 그룹 정보

기본 제공 그룹은 사전 정의된 그룹입니다. 클라우드에서 테넌트 관리자 그룹 외에, 각 환경은 기본 제공 관리자, 공개자 및 사용자 그룹을 갖습니다.

예를 들어, Cumulus라는 테넌트가 사용자 조직을 위해 작성됩니다. 이 테넌트 내에는 Development 및 Production이라는 두 환경이 있습니다. 다음 기본 제공 그룹이 사용 가능합니다.

- 관리자 [cumulus.com]
- 관리자 [Development]
- 공개자 [Development]
- 사용자 [Development]
- 관리자 [Production]
- 공개자 [Production]
- 사용자 [Production]

동일한 사용자가 복수 그룹의 일부일 수 있습니다. 사용자를 기본 제공 그룹에 지정하거나 새 그룹을 작성할 수 있습니다.

참고: 프로젝트 구성 권한을 그룹에 지정하는 경우, 해당 그룹의 사용자는 프로젝트 구성에 대한 전체 액세스 권한을 갖습니다. 즉, 프로젝트 구성의 새 버전을 작성할 뿐 아니라 프로젝트 구성을 편집 및 삭제할 수 있습니다.

다음 목록은 각 기본 제공 그룹에 부여되는 권한을 정의합니다.

- **테넌트 관리자 그룹.** 특정 테넌트의 모든 환경, 사용자, 그룹 및 프로젝트에 대한 권한을 제공합니다. 사용자가 테넌트의 사용자 및 사용자 정의 그룹을 작성, 편집 및 삭제하도록 허용합니다. 이 그룹의 사용자는 테넌트의 모든 기본 제공 또는 사용자 정의 그룹에서 사용자를 추가 및 삭제할 수 있습니다. 이 그룹의 사용자는 테넌트의 모든 소스 프로젝트에 대한 권한을 보기, 편집 및 삭제할 수 있습니다.

이 그룹의 사용자는 테넌트의 모든 환경을 볼 수 있으며 각 테넌트 환경에 있는 환경 관리자의 모든 권한을 갖습니다.

- **환경 관리자 그룹.** 특정 환경의 모든 사용자, 그룹 및 프로젝트에 대한 권한을 제공합니다. 사용자가 특정 환경의 사용자 및 사용자 정의 그룹을 작성, 편집 및 삭제하도록 허용합니다. 이 그룹의 사용자는 환경의 모든 기본 제공 또는 사용자 정의 그룹에서 사용자를 추가 및 삭제할 수 있습니다.

환경 관리자는 또한 환경 공개자가 공개하는 프로젝트에 대한 프로젝트 구성을 작성 및 배치하고 환경에 있는 모든 프로젝트 구성에 대한 오케스트레이션 작업 세부사항을 볼 수도 있습니다. 환경 관리자 그룹 권한이 있으면 동일한 환경에 대한 공개자가 개별 프로젝트 구성에 대해 설정하는 권한을 편집할 수 있습니다.

환경 관리자 그룹의 구성원이 환경 공개자 그룹 및 환경 사용자 그룹 권한을 갖지만, 환경 관리자 그룹의 구성원은 명시적으로 해당 사용자를 추가할 때까지 동일한 환경의 다른 그룹에 표시되지 않습니다.

- **환경 공개자 그룹.** 특정 환경에서 프로젝트 권한을 제공합니다. 사용자가 환경에서 공개하는 모든 프로젝트에 대한 프로젝트 구성을 작성, 배치 또는 삭제하도록 허용합니다. 이 그룹의 사용자는 또한 오케스트레이션을 시작 및 중지하고 환경에서 배치한 프로젝트 구성에 대한 오케스트레이션 작업 세부사항을 볼 수 있습니다. 환경 공개자는 자신이 작성하는 개별 프로젝트 구성에 대한 권한을 동일한 환경에 대한 환경 공개자 권한을 갖는 다른 사용자에게 부여할 수 있습니다.

환경 공개자 그룹의 구성원은 명시적으로 해당 사용자를 추가할 때까지 환경 사용자 그룹에 나타나지 않습니다.

- **환경 사용자 그룹.** 사용자가 특정 환경의 경보 및 오케스트레이션을 모니터링하도록 허용합니다. 이 그룹의 사용자는 프로젝트를 작성 및 편집할 수 있지만, 프로젝트를 환경에 공개할 수 없습니다. 프로젝트를 공개하려는 특정 환경에 대한 공개자 권한이 있어야 합니다. 모든 사용자는 자동으로 환경 사용자 그룹의 구성원입니다.

복수 환경 테넌트에서는 이 그룹의 사용자가 자신이 구성원인 환경에 대한 환경 탭만 봅니다. 예를 들어, 테넌트가 Development, Staging 및 Production 환경을 갖고 있습니다. 테넌트 관리자 또는 Development 환경의 관리자가 사용자를 User [Development] 그룹에 추가합니다. 해당 사용자는 테넌트에 로그인할 때 테넌트가 두 개의 다른 환경을 갖고 있지만 Development 환경만 볼 수 있습니다.

상위 주제: [권한](#)

## 라이브러리 환경 정보

라이브러리 환경은 Studio가 커넥터 라이브러리를 검색하는 환경을 지정하는 사용자 프로파일 매개변수입니다.

복수 환경 테넌트에서, 각 환경은 잠재적으로 여러 버전의 커넥터 라이브러리가 설치되어 있을 수 있습니다. 이 매개변수를 설정하면 Studio에 프로젝트를 확인하면서 사용하기 원하는 라이브러리를 가리킵니다. 프로젝트가 추가 라이브러리가 설치되어야 하는 엔드포인트를 사용하지 않는 경우 이 매개변수는 중요하지 않습니다. 추가 라이브러리를 설치해야 하는 엔드포인트의 전체 목록에 대해서는 커넥터 릴리스 Notes<sup>®</sup>를 참조하십시오.

참고: 사용자가 선택하는 환경이 사용자가 구성원인 기본 그룹의 환경과 일치해야 합니다. 예를 들어, Development 환경을 라이브러리 환경으로 선택하는 경우 Development 환경에 있는 그룹의 구성원이어야 합니다.

상위 주제: [권한](#)

## 사용자 프로파일 정보

사용자 프로파일은 이름, 표시 이름, 이메일 및 그룹 멤버십 같은 사용자 세부사항의 요약을 제공합니다.

관리 콘솔의 맨 위 오른쪽 구석에 있는 설정 링크에서 사용자 프로파일 설정에 액세스하고 편집할 수 있습니다. 표시되는 사용자 프로파일은 현재 관리 콘솔에 로그인된 사용자에 대한 것입니다.

상위 주제: [권한](#)

# 사용자 프로파일 정보 액세스

## 프로시저

1. 관리 콘솔의 우측 상단 모서리에 있는 설정 링크를 클릭하십시오. 설정 창이 표시됩니다.
2. 옵션: 표시 이름 설정의 경우 표시 이름을 수정하려면 편집을 클릭하십시오. 설정을 수정한 후 저장을 클릭하십시오.
3. 옵션: 비밀번호 설정의 경우, 사용자 비밀번호를 수정하려면 편집을 클릭하십시오. 설정을 수정한 후 저장을 클릭하십시오.
4. 옵션: 이메일 설정의 경우, 사용자의 이메일 주소를 수정하려면 편집을 클릭하십시오. 설정을 수정한 후 저장을 클릭하십시오.
5. 옵션: 클라우드: Studio가 커넥터 라이브러리를 검색하는 환경을 지정하려면 라이브러리 환경 변경을 클릭하십시오. 설정을 수정한 후 저장을 클릭하십시오.
6. 설정 창을 닫으려면 닫기를 클릭하십시오.

## 그룹에 사용자 지정

사용자를 그룹에 지정하려면 테넌트 관리자 또는 환경 관리자 권한이 있어야 합니다. 환경 관리자는 해당 특정 환경에 있는 그룹에만 사용자를 추가할 수 있습니다.

사용자를 작성 또는 편집할 때 그룹에 사용자를 지정할 수 있습니다. 또한 그룹을 작성 또는 편집할 때 그룹에 사용자를 지정할 수도 있습니다.

사용자 및 그룹 지정에 대한 자세한 정보는 [새 사용자 작성](#) 및 [새 그룹 작성](#)을 참조하십시오.

상위 주제: [권한](#)

## 비밀번호 변경

### 이 태스크 정보

언제든지 자신의 비밀번호를 변경할 수 있습니다. 그러나, 다른 사용자의 비밀번호를 수정하려면 테넌트 관리자 권한이 있어야 합니다. 환경 관리자는 자신의 환경에 있는 사용자에 대한 비밀번호를 변경할 수 없습니다.

예를 들어, Development 환경의 관리자입니다. 자신의 비밀번호를 변경할 수 있지만, Development 환경에 대한 권한으로 임의의 특정 사용자에 대한 비밀번호를 변경할 수 없습니다.

## 프로시저

1. 관리 콘솔의 우측 상단 모서리에 있는 설정 링크를 클릭하십시오. 설정 창이 표시됩니다.
2. 비밀번호 설정에 대한 편집을 클릭하십시오.
3. 이전 비밀번호, 새 비밀번호 및 비밀번호 확인 필드에 대한 값을 입력하십시오.

비밀번호 텍스트 숨기기 옵션을 선택 취소하는 경우 비밀번호가 표시되고 더 이상 암호화되지 않습니다.

4. 비밀번호를 변경하려면 저장을 클릭하십시오.

## 결과

관리 콘솔이 새 비밀번호를 성공적으로 저장했을 때 확인 메시지가 표시됩니다.



## 사용자 비밀번호 변경

---

### 이 태스크 정보

---

언제든지 자신의 비밀번호를 변경할 수 있습니다. 그러나, 다른 사용자의 비밀번호를 수정하려면 테넌트 관리자 권한이 있어야 합니다. 환경 관리자는 자신의 환경에 있는 사용자에 대한 비밀번호를 변경할 수 없습니다.

예를 들어, Development 환경의 관리자입니다. 자신의 비밀번호를 변경할 수 있지만, Development 환경에 대한 권한으로 임의의 특정 사용자에 대한 비밀번호를 변경할 수 없습니다.

다른 사용자의 비밀번호를 변경하려면 다음을 수행하십시오.

### 프로시저

---

1. 관리 콘솔에 테넌트 관리자로서 로그인하십시오.
2. 보안 > 사용자 및 그룹을 선택하십시오.
3. 비밀번호를 변경하려는 사용자의 이름을 클릭하십시오.
4. 사용자 편집 창에서 비밀번호를 입력하여 비밀번호를 확인하십시오.

비밀번호 텍스트 숨기기 옵션을 선택 취소하는 경우 비밀번호가 표시되고 더 이상 암호화되지 않습니다.

5. 비밀번호를 변경하려면 저장을 클릭하십시오.

### 결과

---

관리 콘솔이 새 비밀번호를 성공적으로 저장했을 때 확인 메시지가 표시됩니다.

상위 주제: 권한

## 새 그룹 작성

---

클라우드에서 테넌트 관리 사용자만 새 그룹을 작성할 수 있습니다. 복수 환경 테넌트에서는 환경 관리자도 자신의 특정 환경에 대한 새 그룹을 작성할 수 있습니다.

### 시작하기 전에

---

물리적 또는 가상 통합 어플라이언스에서는 관리 사용자만 새 그룹을 작성할 수 있습니다.

### 프로시저

---

1. 관리 콘솔에서 관리자로서 로그인하십시오.
2. 보안 > 사용자 및 그룹을 선택하십시오.
3. 그룹 섹션에서 새 그룹을 클릭하십시오.
4. 새 그룹 대화 상자에서 새 그룹에 대한 이름 및 표시 이름을 입력하십시오.
5. 사용자 목록에서 그룹에 참여할 사용자를 선택하십시오.

목록의 모든 사용자를 선택하려면 사용자 선택란을 선택하십시오.

6. 저장을 클릭하십시오.

## 결과

---

사용자 및 그룹 페이지의 그룹 섹션에서 새 그룹이 알파벳순으로 표시됩니다.

상위 주제: [권한](#)

## 새 사용자 작성

---

클라우드에서 테넌트 관리 사용자만 새 사용자를 작성할 수 있습니다. 복수 환경 테넌트에서는 환경 관리자도 자신의 특정 환경에 대한 새 사용자를 작성할 수 있습니다.

## 시작하기 전에

---

물리적 또는 가상 통합 어플라이언스에서는 관리 사용자만 새 사용자를 작성할 수 있습니다.

## 프로시저

---

1. 관리 콘솔에서 관리자로서 로그인하십시오.
2. 보안 > 사용자 및 그룹을 선택하십시오.
3. 사용자 섹션에서 새 사용자를 클릭하십시오.
4. 새 사용자 창에서, 이름, 표시 이름, 이메일, 비밀번호 및 비밀번호 확인 필드에 대한 값을 입력하십시오.

사용자 이름 및 표시 이름에 테넌트 이름을 추가할 것을 권장합니다.

예를 들어, 테넌트 이름이 `ibm.com`®이면 새 사용자 이름은 `newuser@ibm.com`이어야 합니다. 이것은 클라우드의 복수 테넌트 사이에서 공통 사용자 이름을 식별하는 데 도움이 됩니다.

5. 옵션: 비밀번호 텍스트 숨기기 선택란을 선택 취소하십시오. 이 옵션을 선택 취소하면 사용자가 입력하는 비밀번호가 표시되고 더 이상 암호화되지 않습니다.
6. 그룹 목록에서, 새 사용자가 액세스할 모든 그룹을 선택하십시오.
7. 옵션: 활성 선택란을 선택 취소하십시오. 이 옵션을 선택 취소하는 경우 사용자는 관리 콘솔에 로그인할 수 없습니다.
8. **클라우드만 해당:** 라이브러리 환경 목록에서, 사용자의 프로젝트가 엔드포인트를 위한 추가 라이브러리 및 파일을 검색할 수 있는 환경을 선택하십시오. 사용자가 선택하는 환경이 사용자가 구성원인 기본 그룹의 환경과 일치해야 합니다. 예를 들어, Development 환경을 라이브러리 환경으로 선택하는 경우 Development 환경에 있는 그룹의 구성원이어야 합니다.
9. 저장을 클릭하십시오.

## 결과

---

사용자 및 그룹 페이지의 사용자 섹션에서 새 사용자가 알파벳순으로 표시됩니다.

상위 주제: [권한](#)

## 그룹 삭제

---

클라우드에서는 테넌트 관리 사용자만 클라우드 환경에서 그룹을 삭제할 수 있습니다. 복수 환경 테넌트에서는 환경 관리자도 자신의 특정 환경에 대한 그룹을 삭제할 수 있습니다.

## 시작하기 전에

---

물리적 또는 가상 통합 어플라이언스에서는 관리 사용자만 그룹을 삭제할 수 있습니다.

## 프로시저

---

1. 관리 콘솔에서 보안 > 사용자 및 그룹을 선택하십시오.
2. 그룹 섹션에서 삭제하려는 그룹을 선택하십시오.
3. 삭제를 클릭하십시오.
4. 예를 클릭하여 관리 콘솔이 선택된 그룹을 삭제할 것임을 확인하십시오.

## 결과

---

관리 콘솔이 그룹의 목록을 새로 고칩니다.

상위 주제: [권한](#)

## 사용자 삭제

---

클라우드에서는 테넌트 관리 사용자만 클라우드 환경에서 사용자를 삭제할 수 있습니다. 복수 환경 테넌트에서는 환경 관리자도 자신의 특정 환경에 대한 사용자를 삭제할 수 있습니다.

## 시작하기 전에

---

물리적 또는 가상 통합 어플라이언스에서는 관리 사용자만 사용자를 삭제할 수 있습니다.

## 프로시저

---

1. 관리 콘솔에서 관리자로서 로그인하십시오.
2. 보안 > 사용자 및 그룹을 선택하십시오.
3. 사용자 섹션에서 삭제하려는 사용자를 선택하십시오.
4. 삭제를 클릭하십시오.
5. 예를 클릭하여 관리 콘솔이 선택된 사용자를 삭제할 것임을 확인하십시오.

## 결과

---

관리 콘솔이 사용자의 목록을 새로 고칩니다.

상위 주제: [권한](#)

## 프로젝트 구성 권한 부여

---

프로젝트 구성 권한을 편집하여 사용자 또는 그룹에 권한을 부여할 수 있습니다. 사용자 또는 그룹에 권한을 부여할 때 그들은 프로젝트 구성을 편집하거나 삭제할 수 있습니다.

## 시작하기 전에

---

다른 사용자나 그룹에 프로젝트 구성을 편집 또는 삭제할 권한을 부여하려면 관리자 권한이 있거나 프로젝트의 공개자여야 합니다.

## 이 태스크 정보

---

기본적으로, 프로젝트 구성에 대한 권한은 관리자 그룹에만 부여됩니다. 또 다른 그룹에 권한을 부여하려는 경우 명시적으로 수행해야 합니다.

예를 들어, 사용자가 공개자 권한을 갖는 사용자이고 기본 제공 공개자 그룹에 속합니다. 프로젝트를 공개합니다. 사용자, 관리자 그룹 구성원 및 사용자가 속하는 공개자 그룹의 구성원만 프로젝트 구성에 대한 권한을 갖게 됩니다. 프로젝트 구성에 대한 권한을 가질 다른 그룹을 포함하려는 경우, 프로젝트 구성에 대한 권한을 편집하여 다른 그룹을 포함시켜야 합니다.

권한을 편집하려면 다음을 수행하십시오.

## 프로시저

---

1. 프로젝트 구성을 클릭하십시오. 구성 세부사항 페이지가 표시됩니다.
2. 권한 섹션에서 그룹 또는 사용자 아래의 편집을 클릭하고 권한을 부여할 하나 이상의 그룹이나 사용자를 선택하십시오.
3. 저장을 클릭하십시오.

참고: 그룹에 대한 권한이 주어질 때, 해당 그룹의 모든 사용자에게 기본적으로 프로젝트 구성에 대한 권한이 부여됩니다. 이 그룹에서 개별 사용자에게 대한 권한을 제거할 수 없습니다. 임의의 사용자(이 그룹 밖에 있는)가 프로젝트에 액세스해야 하는 경우, 사용자 테이블에서 해당 사용자만 선택하여 사용자에게 권한을 부여할 수 있습니다.

## 결과

---

선택하는 모든 사용자와 그룹이 이제 프로젝트 구성에 대한 전체 액세스 권한을 갖습니다. 이들 사용자와 그룹은 이제 프로젝트 구성을 편집 및 삭제할 수 있습니다.

상위 주제: [권한](#)

## 로컬 스테이징 데이터베이스 권한

---

기본 제공되는 관리자 그룹의 일부가 됨으로써 부여되는 관리자 권한을 갖는 사용자만 로컬 스테이징 데이터베이스를 시작, 중지 및 조작을 수행할 수 있습니다.

공개자 권한을 갖는 사용자는 로컬 스테이징 데이터베이스가 이미 관리자 권한을 갖는 사용자에 의해 시작된 경우에만 테이블을 보고 데이터베이스에 대해 조작을 수행할 수 있습니다. 로컬 스테이징 데이터베이스가 시작되지 않은 경우, 공개자 권한을 갖는 사용자는 데이터베이스를 보거나 데이터베이스에 조작을 수행할 수 없습니다.

기본 제공 사용자 그룹의 일부이거나 LDAP 서버에서 작성된 WMC 로그인 신임 정보를 갖는 사용자는 로컬 스테이징 데이터베이스에 액세스할 수 없습니다.

상위 주제: [권한](#)

## 보안 커넥터 사용

---

보안 커넥터 사용 주제는 보안 커넥터 작성, 설치 및 관리에 관한 정보를 제공합니다.

- [보안 커넥터 정보](#)

- **보안 커넥터 최소 요구사항**  
이 주제는 보안 커넥터를 사용하기 위해 필요한 최소 시스템 요구사항에 관한 정보를 제공합니다.
- **보안 연결 작성**  
이 주제는 보안 커넥터 작성에 관한 정보를 제공합니다.
- **보안 커넥터 구성 파일 다운로드**  
보안 커넥터 구성 파일을 다운로드하는 방법입니다.
- **보안 커넥터 설치**  
보안 커넥터 설치 프로그램을 다운로드하고 보안 커넥터를 설치하는 프로시저를 제공합니다.
- **보안 커넥터 TrustStore/KeyStore에 인증서 추가 또는 가져오기**  
SSL 사용 서버(HTTPS/FTPS)와의 연결을 구축하기 위해 필요한 HTTP, FTP, 이메일 또는 웹 서비스(또는 기타 다른 커넥터) 같은 Cast Iron 커넥터 활동의 경우, 대응하는 인증서를 보안 커넥터의 신뢰 저장소나 키 저장소로 가져와야 합니다.
- **보안 커넥터용 공급업체 제공 라이브러리 설치**  
특정 엔드포인트는 보안 커넥터가 엔드포인트와 통신할 수 있기 전에 추가 라이브러리가 설치되어야 합니다. 이 절에서는 웹 관리 콘솔(WMC)을 사용하여 이런 공급업체 제공 라이브러리 설치에 관한 정보를 제공합니다. 공급업체 제공 라이브러리가 필요한 커넥터의 전체 목록을 보려면 WMC에서 커넥터 라이브러리 업데이트 페이지를 여십시오.
- **SAP 라이브러리 다운로드 및 설치**  
Studio에서 SAP 시스템에 연결하려면 Windows 개발 머신에 SAP DLL 및 JAR 파일을 설치해야 합니다. SAP 지원 포털에 들어가서 파일을 다운로드하려면 SAP 로그인 신임 정보가 있어야 합니다.
- **보안 커넥터 설치 제거(Windows)**  
이 주제는 Windows 머신으로부터 보안 커넥터 설치 제거에 대한 정보를 제공합니다.
- **보안 커넥터 설치 제거(Linux)**  
이 주제는 Linux 머신에서 보안 커넥터 설치 제거에 관한 정보를 제공합니다.
- **보안 커넥터 시작 및 중지**  
보안 커넥터 시작 및 중지 주제는 Windows 및 Linux 머신에서 보안 커넥터 시작 및 중지 방법에 관한 정보를 제공합니다. Windows 머신의 경우, 설치 중에 선택한 옵션이 보안 커넥터를 시작 및 중지하는 방법에 영향을 줍니다. 권장하는 대로 보안 커넥터를 자동 Windows 서비스로서 설치한 경우, Windows 서비스 제어판을 사용하여 보안 커넥터를 중지 및 시작할 수 있습니다. 보안 커넥터를 Windows 애플리케이션으로서 설치한 경우, Windows 시작 메뉴 바로 가기 또는 데스크탑 단축 아이콘을 사용하여 보안 커넥터를 시작 및 중지할 수 있습니다. Linux 머신의 경우, 그래픽 인터페이스를 사용하거나 명령행에서 명령을 실행하여 보안 커넥터를 시작 및 중지할 수 있습니다.
- **보안 커넥터 업그레이드**  
이 주제는 보안 커넥터 업그레이드에 관한 정보를 제공합니다.
- **보안 커넥터 구성 업데이트**  
이 주제는 보안 커넥터 구성 업데이트에 대한 정보를 제공합니다.
- **보안 커넥터 모니터링**  
모니터링 도구를 사용하여 보안 커넥터(SC1)의 상태를 검사하고 보안 커넥터(SC1)가 작업을 중지하는 경우에 대체 토크 보안 커넥터(SC2)를 제공할 수 있습니다. SC1의 장애 시에, SC2를 지정하면 SC1을 사용하는 모든 프로젝트를 SC2를 사용하도록 전환하여 Cast Iron 프로젝트의 연속적인 가용성을 제공합니다.
- **보안 커넥터 문제점 해결**  
이 주제는 보안 커넥터에 대해 갖는 문제에 대한 잠재적 솔루션을 제공합니다.

## 보안 커넥터 정보

보안 커넥터는 IBM® WebSphere® Cast Iron® 어플라이언스와 방화벽 뒤에 위치한 엔드포인트 사이의 데이터의 보안 전송을 용이하게 합니다. 어플라이언스에 대한 보안 커넥터 설치 프로그램은 32비트 및 64비트 Windows 및 Linux 머신을 둘 다 지원합니다.

보안 커넥터를 사용으로 설정하려면 테넌트 관리자가 다음 태스크를 완료해야 합니다.

- 보안 커넥터 작성
- 보안 커넥터 구성 파일 다운로드
- 보안 커넥터 설치 프로그램 시작
- 공급업체 제공 라이브러리 설치

상위 주제: [보안 커넥터 사용](#)

## 보안 커넥터 최소 요구사항

이 주제는 보안 커넥터를 사용하기 위해 필요한 최소 시스템 요구사항에 관한 정보를 제공합니다.

다음 운영 체제에서 보안 커넥터를 실행할 수 있습니다.

- Microsoft Windows 7
- Microsoft Windows 8
- Microsoft Windows 2008
- Linux(RHEL 6.5, Ubuntu 14.04)

참고: Linux 플랫폼에서 보안 커넥터 설치의 경우 GUI 옵션을 사용하기 위해 xWindows 또는 KDE 환경을 사용하십시오.

보안 커넥터는 다음 최소 시스템 요구사항을 갖습니다.

- 1GHz CPU
- 2GB RAM
- Java 1.7

상위 주제: [보안 커넥터 사용](#)

## 보안 연결 작성

이 주제는 보안 커넥터 작성에 관한 정보를 제공합니다.

### 이 태스크 정보

환경에 대한 보안 커넥터를 작성하려면 웹 관리 콘솔(WMC)을 사용하십시오.

어플라이언스에서 보안 커넥터를 작성한 후, 보안 커넥터와 방화벽 뒤의 특정 엔드포인트 사이의 통신을 용이하게 하기 위해 방화벽 뒤에 머신을 구성해야 합니다. 방화벽 뒤의 머신을 구성하려면 보안 커넥터 설치 프로그램을 사용하십시오.

참고: 작성 중인 엔드포인트가 보안 커넥터를 위한 추가 라이브러리를 필요로 하는 경우, 보안 커넥터를 사용하는 프로젝트 구성을 배치하기 전에 WMC를 사용하여 해당 라이브러리를 설치하십시오.

### 프로시저

1. 환경 탭의 탐색 분할창에서 시스템 > 보안 커넥터를 선택하십시오.
2. 새 보안 커넥터를 클릭하십시오. 보안 커넥터 작성 대화 상자가 표시됩니다.
3. 새 보안 커넥터의 이름을 제공하십시오.
4. 보안 커넥터의 간략한 설명을 제공하십시오.
5. 저장을 클릭하십시오. 보안 커넥터가 보안 커넥터 페이지에 표시됩니다.

## 보안 커넥터 설치 프로그램 다운로드:

Cast Iron 설치 프로그램 CD, Fix Central 또는 IBM Passport Advantage에서 보안 커넥터 설치 프로그램을 다운로드할 수 있습니다. 사용자 요구사항에 따라서 Windows 또는 Linux, 32비트 또는 64비트를 다운로드할 수 있습니다.

상위 주제: [보안 커넥터 사용](#)

# 보안 커넥터 구성 파일 다운로드

보안 커넥터 구성 파일을 다운로드하는 방법입니다.

## 이 태스크 정보

구성 파일을 다운로드할 때, 구성 파일은 기본 다운로드 디렉토리에 저장됩니다. 구성 파일을 다른 위치에 저장할 것을 선택할 수 있습니다. 다운로드하는 구성 파일의 수와 상관없이, 보안 커넥터 설치 프로세스 중에는 하나의 구성 파일만 사용할 수 있습니다.

보안 커넥터를 설정할 구성 파일을 선택했을 때, 해당 구성 파일이 모든 후속 보안 커넥터를 구성하는 데 사용됩니다. 동일한 구성 파일을 사용하는 복수 보안 커넥터를 구성하는 것은 권장되지 않습니다. 대신, 새 구성 파일을 사용하거나 기존 구성 파일을 수정하십시오. 게이트웨이, 청취 포트 및 전송 포트 매개변수는 각 보안 커넥터에 대해 고유한 값을 가져야 합니다.

보안 커넥터 구성 파일은 다음 매개변수에 대한 값을 갖는 보안 커넥터 설치 프로그램을 제공합니다.

- **보안 커넥터 이름** - 작성한 보안 커넥터의 이름을 지정하십시오.
- **테넌트 ID** - 파일에서 제공한 기본값을 사용하십시오. 내부 통신에 사용됩니다.
- **환경 ID** - 파일에서 제공되는 기본값을 사용하십시오. 내부 통신에 사용됩니다.
- **게이트웨이** - 파일에서 제공한 기본값을 사용하십시오. 어플라이언스가 실행 중인 데이터 네트워크 IP입니다.
- **청취 포트** - 다른 서비스가 지정된 포트를 사용 중이거나 상자에서 복수 보안 커넥터를 실행하려는 경우에만 이 매개변수를 수정하십시오.
- **전송 포트** - 다른 서비스가 지정된 포트를 사용 중이거나 상자에서 복수 보안 커넥터를 실행하려는 경우에만 이 매개변수를 수정하십시오.
- **보안 커넥터 인증 키** - 어플라이언스에서 작성한 보안 커넥터의 인증 키를 지정하십시오.
- **보안 커넥터 개인 키** - 어플라이언스에서 보안 커넥터를 작성하는 중에 다운로드한 인증 개인 키를 지정하십시오.

참고: 어플라이언스에서 보안 커넥터를 사용 중인 경우,

- 어플라이언스 IP가 보안 커넥터가 설치되는 머신에서 도달 가능(ping을 실행할 수 있음)인지 확인하십시오.
- 아래에서 언급되는 포트가 보안 커넥터와의 통신을 위해 어플라이언스에 의해 내부적으로 사용됩니다. HTTP 요청 수신 활동 및 웹 서비스 활동을 포함하는 오케스트레이션 활동 중 하나에서 어플라이언스에서 이들 포트를 사용하지 않을 것을 권장합니다.
- - 9080
  - 9442
  - 9443
  - 9445

보안 커넥터 구성 파일을 다운로드하려면 다음 단계를 완료하십시오.

## 프로시저

1. 웹 관리 콘솔에 테넌트 관리자로서 로그인하십시오.

2. 환경 탭의 탐색 분할창에서 시스템 > 보안 커넥터를 선택하십시오.
3. 보안 커넥터 창에서, 방화벽 뒤에 있는 엔드포인트와 통신할 보안 커넥터를 클릭하십시오. 보안 커넥터 편집 대화 상자가 표시됩니다.
4. 보안 커넥터 구성 다운로드를 클릭하고 지금 다운로드를 클릭하십시오. 보안 커넥터 구성 열기 대화 상자가 표시됩니다.
5. 파일 저장을 선택하고 확인을 클릭하십시오. 구성 파일이 현재 사용자의 기본 다운로드 디렉토리에 저장됩니다.

상위 주제: [보안 커넥터 사용](#)

## 보안 커넥터 설치

보안 커넥터 설치 프로그램을 다운로드하고 보안 커넥터를 설치하는 프로시저를 제공합니다.

### 시작하기 전에

Windows 설치의 경우, 설치된 보안 커넥터의 기존 버전이 없는지 확인하십시오. 설치된 이전 버전이 있는 경우, 계속하기 전에 설치 제거하십시오.

Linux 설치의 경우, 필수는 아니지만 이전 보안 커넥터 설치를 설치 제거하는 것이 좋은 방법입니다.

Linux 머신의 경우, 그래픽 인터페이스를 제공하기 위해 GNOME 또는 KDE 같은 데스크탑 환경을 설치하십시오.

### 이 태스크 정보

어플라이언스에서 보안 커넥터를 작성한 후, 보안 커넥터와 방화벽 뒤의 특정 엔드포인트 사이의 통신을 용이하게 하기 위해 방화벽 뒤에 머신을 구성해야 합니다. 방화벽 뒤의 머신을 구성하려면 보안 커넥터 설치 프로그램을 사용하십시오.

참고: 설치 프로그램을 실행하기 위해 선택하는 머신은 엔드포인트에 액세스할 수 있어야 합니다. 엔드포인트와 동일한 머신에서 설치 프로그램을 실행할 필요는 없습니다.

참고: 어플라이언스에서 보안 커넥터를 사용 중인 경우,

- 어플라이언스 IP가 보안 커넥터가 설치되는 머신에서 도달 가능(ping을 실행할 수 있음)한지 확인하십시오.
- 아래에서 언급되는 포트가 보안 커넥터와의 통신을 위해 어플라이언스에 의해 내부적으로 사용됩니다. HTTP 요청 수신 활동 및 웹 서비스 활동을 포함하는 오케스트레이션 활동 중 하나에서 어플라이언스에서 이들 포트를 사용하지 않을 것을 권장합니다.
- - 9080
  - 9442
  - 9443
  - 9445

#### 보안 커넥터 설치 프로그램 다운로드:

Cast Iron® 설치 프로그램 CD, Fix Central 또는 IBM® Passport Advantage®에서 보안 커넥터 설치 프로그램을 다운로드할 수 있습니다. 사용자 요구사항을 바탕으로 32비트 또는 64비트의 Windows 또는 Linux를 다운로드할 수 있습니다.

#### 보안 커넥터를 설치하려면

1. 다운로드한 보안 커넥터 설치 프로그램을 시작하십시오.
  - windows-secure-connector-installer.exe(Windows)
  - linux-secure-connector-installer.sh(Linux)

보안 커넥터 설치 프로그램 마법사가 표시됩니다.



2. 다음을 클릭한 후 라이선스 계약을 읽고 동의하십시오.
3. 다음을 클릭하고 설치 디렉토리를 선택하십시오.
4. 다음을 클릭하십시오. 메시지 창이 대상 디렉토리가 작성되는 위치를 명시합니다.  
참고: 설치 디렉토리가 존재하는 경우, 경고 메시지가 표시되며 사용자가 기존 파일을 설치 및 겹쳐쓰기 원함을 확인해야 합니다.
5. 확인을 클릭하십시오.
6. 보안 커넥터를 시작, 중지 및 편집하려면 단축 아이콘 옵션을 설정하십시오.
  - a. 다음 옵션 중 하나 또는 둘 다를 선택하십시오.
    - 시작 메뉴에서 바로 가기를 작성하십시오.
    - 데스크탑에서 추가 바로 가기를 작성하십시오.
  - b. 바로 가기에 액세스하는 프로그램 그룹을 선택하십시오.
  - c. 현재 사용자 또는 모든 사용자에게 대한 바로 가기를 작성할 것을 선택하십시오.
7. 다음을 클릭하십시오. 설치 진행상태가 표시됩니다.
8. 보안 커넥터 구성 파일을 선택하십시오. 아직 보안 커넥터 구성 파일을 다운로드하지 않은 경우 하나를 지금 다운로드하십시오. 보안 커넥터 구성 파일 다운로드 방법에 대한 자세한 정보는 [보안 커넥터 구성 파일 다운로드](#)의 내용을 참조하십시오.
9. 다음을 클릭하십시오.
10. Windows 설치의 경우, 보안 커넥터를 Windows 서비스로서 설치 및 구성할 것을 선택하십시오. 보안 커넥터를 Windows 서비스로서 설치할 것을 선택하는 경우 Windows 서비스 제어판을 사용하여 보안 커넥터를 제어할 수 있습니다(권장). 보안 커넥터를 Windows 서비스로서 설치 및 실행하지 않을 것을 선택하는 경우 보안 커넥터가 Windows 애플리케이션으로 설치됩니다. 보안 커넥터를 Windows 서비스로 실행하려면 다음 서비스 계정 정보를 지정해야 합니다.
  - 서비스 시작 모드
  - 서비스 계정 도메인
  - 서비스 계정 사용자
  - 서비스 계정 비밀번호
11. 다음을 클릭하십시오. 공급업체 제공 라이브러리 작성 화면이 표시됩니다.
12. 추가를 클릭하고 업로드할 라이브러리 파일을 선택하십시오. 어플라이언스에서 유효한 파일은 .jar, .dll 및 .so 파일 유형입니다. 사용자가 선택하는 파일이 추가할 파일 열에 표시됩니다.
13. 업데이트를 클릭하십시오.

추가할 파일 열에 표시되는 파일은 업데이트를 클릭할 때까지 커밋되지 않습니다.

14. 다음을 클릭하십시오. 업데이트 단추를 클릭하지 않았으면, 작성된 변경을 확인하기 위해 대화 상자가 표시됩니다. 변경을 업데이트하고 계속 진행하려면 예를 클릭하십시오. 아니오를 클릭하는 경우 변경하지 않고 다음 화면으로 이동합니다. 동일한 화면에 머무르려면 취소 단추를 클릭하십시오.
15. 예를 클릭하여 추가로 진행할 때 Vendor JAR created/updated successfully 메시지가 표시됩니다.
16. 확인을 클릭하십시오. 설치가 성공적으로 완료했음을 알리는 메시지가 표시됩니다.
17. 보안 커넥터를 다시 시작하십시오.

참고: 엔드포인트(즉 SAP)가 추가 라이브러리를 요구하는 경우, 보안 커넥터를 시작하기 전에 추가 라이브러리를 설치해야 합니다. 추가 라이브러리 설치에 대한 자세한 정보는 [보안 커넥터용 공급업체 제공 라이브러리 설치](#)의 내용을 참조하십시오.

#### 보안 커넥터 설치 프로그램을 실행하려면

1. 보안 커넥터 작성 섹션에서 다운로드한 보안 커넥터 설치 프로그램을 시작하십시오.
  - windows-agent-installer.exe(Windows)
  - linux-agent-installer.sh(Linux)
2. 라이선스 계약을 동의하고 설치 디렉토리를 선택하십시오.

3. 관리자로서 웹 관리 콘솔에 로그인하십시오.
4. 설정 > 지원 정보를 선택하십시오. 보안 커넥터 설치 프로그램 매개변수를 구성하는 동안 지원 정보 페이지를 열어 두십시오. 지원 정보 페이지에서 값을 잘라내어 적절한 매개변수 필드에 붙여 넣을 수 있습니다.
5. 다음 매개변수에 대한 값을 제공하십시오.
  - 보안 커넥터 이름 - 작성한 보안 커넥터의 이름을 지정하십시오.
  - 테넌트 ID - 파일에서 제공한 기본값을 사용하십시오. 내부 통신에 사용됩니다.
  - 환경 ID - 파일에서 제공되는 기본값을 사용하십시오. 내부 통신에 사용됩니다.
  - 게이트웨이 - 파일에서 제공한 기본값을 사용하십시오. 어플라이언스가 실행 중인 데이터 네트워크 IP입니다.
  - 청취 포트 - 다른 서비스가 지정된 포트를 사용 중이거나 상자에서 복수 보안 커넥터를 실행하려는 경우에만 이 매개변수를 수정하십시오.
  - 전송 포트 - 다른 서비스가 지정된 포트를 사용 중이거나 상자에서 복수 보안 커넥터를 실행하려는 경우에만 이 매개변수를 수정하십시오.
  - 보안 커넥터 인증 키 - 클라우드에서 작성한 보안 커넥터의 인증 키를 지정하십시오.
  - 보안 커넥터 개인 키 - 클라우드에서 보안 커넥터를 작성하는 중에 다운로드한 인증 개인 키를 지정하십시오.
6. 명령 프롬프트를 열고 보안 커넥터 설치 디렉토리로 이동하십시오.
7. 엔드포인트(즉, SAP)가 추가 라이브러리를 요구하는 경우, 보안 커넥터를 시작하기 전에 추가 라이브러리를 설치해야 합니다. 추가 라이브러리 설치에 대한 자세한 정보는 보안 커넥터에 공급업체 라이브러리 설치를 참조하십시오.
8. 명령 프롬프트에서 다음 파일 중 하나를 실행하여 보안 커넥터를 시작하십시오.
  - Windows: runclient\_osgi.bat
  - Linux: runclient\_osgi.sh

상위 주제: [보안 커넥터 사용](#)

## 보안 커넥터 TrustStore/KeyStore에 인증서 추가 또는 가져오기

SSL 사용 서버(HTTPS/FTPS)와의 연결을 구축하기 위해 필요한 HTTP, FTP, 이메일 또는 웹 서비스(또는 기타 다른 커넥터) 같은 Cast Iron 커넥터 활동의 경우, 대응하는 인증서를 보안 커넥터의 신뢰 저장소나 키 저장소로 가져와야 합니다.

### 프로시저

1. Java keytool 유틸리티를 사용하여 언급된 경로에 있는 TrustStore(cacerts) 또는 KeyStore(cert)로 필수 인증서를 가져오십시오(<secure\_connector\_install\_directory>\etc\security).
2. 변경이 효력을 갖도록 보안 커넥터를 다시 시작하십시오.

상위 주제: [보안 커넥터 사용](#)

## 보안 커넥터용 공급업체 제공 라이브러리 설치

특정 엔드포인트는 보안 커넥터가 엔드포인트와 통신할 수 있기 전에 추가 라이브러리가 설치되어야 합니다. 이 절에서는 웹 관리 콘솔(WMC)을 사용하여 이런 공급업체 제공 라이브러리 설치에 관한 정보를 제공합니다. 공급업체 제공 라이브러리가 필요한 커넥터의 전체 목록을 보려면 WMC에서 커넥터 라이브러리 업데이트 페이지를 여십시오.

## 이 태스크 정보

통합 프로젝트가 추가 라이브러리가 필요한 커넥터를 사용하는 경우, 프로젝트 구성을 배치하기 전에 추가 라이브러리를 설치해야 합니다. 추가 라이브러리를 설치하기 전에 프로젝트 구성을 배치하면 런타임 오류가 생성됩니다. 공급업체 제공 라이브러리가 필요한 커넥터의 전체 목록에 대해서는 커넥터 라이브러리 업데이트 페이지를 여십시오. 다음 프로시저를 참조하십시오.

## 프로시저

1. WMC에 로그인하십시오.
2. 시스템 > 커넥터 라이브러리 업그레이드를 선택하십시오.
3. 커넥터 열에서 추가 파일을 설치하려는 커넥터를 선택하십시오.

이미 설치된 모든 파일이 설치된 파일 열에 표시됩니다.

4. 더하기(+) 아이콘을 클릭하고 업로드할 라이브러리 파일을 선택하십시오. 어플라이언스에서, 올바른 파일은 .jar 이고 .dll은 올바른 라이브러리 파일 유형입니다. 사용자가 선택하는 파일이 추가할 파일 열에 표시됩니다.
5. 업데이트를 클릭하십시오.

추가할 파일 열에 표시되는 파일은 업데이트를 클릭할 때까지 커밋되지 않습니다. 업데이트를 클릭하기 전에 재설정을 클릭하는 경우 WMC는 사용자가 업로드한 파일을 추가하지 않습니다. 업데이트를 클릭하고 추가된 파일을 커밋하기 전에 WMC가 제한시간 초과하는 경우 마지막 두 단계를 반복하십시오.

6. 동일한 환경 탭에서 시스템 > 보안 커넥터를 선택하십시오.
7. 라이브러리 다운로드를 클릭하고 SecureConnector-Default Environment-libraries.zip 파일을 사용자 워크스테이션에 저장하십시오.
8. SecureConnector-Default Environment-libraries.zip 파일의 압축을 풀고 각 커넥터 모듈에 대한 \*.tp-1.0.0.jar을 찾으십시오.
9. SecureConnector-Default Environment-libraries.zip의 .jar 파일을 사용하여 보안 커넥터 설치 디렉토리 lib/plugins의 파일을 대체하십시오.
10. 모든 나머지 .zip 파일을 보안 커넥터 설치 디렉토리인 lib/thirdparty에 복사하십시오.
11. 명령행에서 다음 파일 중 하나를 실행하여 보안 커넥터를 다시 시작하십시오.
  - Windows: runclient\_osgi.bat
  - Linux: runclient\_osgi.sh

상위 주제: [보안 커넥터 사용](#)

## SAP 라이브러리 다운로드 및 설치

Studio에서 SAP 시스템에 연결하려면 Windows 개발 머신에 SAP DLL 및 JAR 파일을 설치해야 합니다. SAP 지원 포털에 들어가서 파일을 다운로드하려면 SAP 로그인 신임 정보가 있어야 합니다.

## 이 태스크 정보

SAP JAR 파일 및 DLL을 다운로드 및 설치하려면 다음을 수행하십시오.

1. SAP 기술 지원에 문의하여 다음 SAP 컴포넌트를 위한 압축 파일을 확보하십시오.

- **SAP JCo 릴리스 3.0.x - Studio가 실행 중인 플랫폼을 기반으로.**
- 참고: 사용 가능한 JCo jar의 최신 버전: 3.0.14, IDoc 버전 3.0.12.
- 2. SAP JCo 압축 파일을 푸십시오.
  - sapjdoc30P\_x-1000xxxx.zip 파일을 두 번 클릭하십시오.
  - 압축 해제 도구를 사용하여 압축 파일의 콘텐츠를 임시 디렉토리에 추출하십시오. 이 압축 파일에는 또 다른 압축 파일 sapjco3-NTintel-3.0.x.zip이 들어 있습니다. 이 압축 파일도 임시 디렉토리(예: C:\temp\sapjco3-NTintel-3.0.x)에 추출하십시오. 이 디렉토리에는 필수 라이브러리인 sapjco3.jar 및 sapjco3.dll이 들어 있습니다.
- 3. SAP IDoc JCo 압축 파일의 압축을 해제하십시오.
  - sapjdoc30P\_x-1000xxxx.zip 파일을 두 번 클릭하십시오.
  - 압축 해제 도구를 사용하여 압축 파일의 콘텐츠를 임시 디렉토리(예: C:\temp\sapjdoc30P\_x-1000xxxx)에 추출하십시오. 이 디렉토리에는 필수 라이브러리 sapidoc3.jar이 들어 있습니다.

## 프로시저

1. Studio를 열고, 도구 > 모듈 제공자 설치를 선택하십시오.
2. 제공자 추가 대화 상자가 표시될 때, SAP 커넥터 아래의 더하기(+) 단추를 클릭하십시오.

텍스트 필드와 찾아보기 단추가 표시됩니다.

3. 찾아보기를 클릭하고, 찾아보기 대화 상자를 사용하여 sapjco3.jar 파일을 선택하십시오.
4. 열기를 클릭하여 JAR 파일 콘텐츠를 가져오십시오.
5. 다음에 사용 가능한 더하기(+) 단추를 클릭하여 sapidoc3.jar 및 sapjco3.dll 파일을 추가하십시오.
6. JAR 파일이 제공자 추가 대화 상자에 나열될 때 확인을 클릭하십시오.

## 결과

Studio를 다시 시작하고 변경사항을 활성화하는 프롬프트가 표시됩니다.

## 다음에 수행할 작업

이제 SAP 엔드포인트 및 오케스트레이션을 작성할 수 있습니다.

상위 주제: [보안 커넥터 사용](#)

## 보안 커넥터 설치 제거(Windows)

이 주제는 Windows 머신으로부터 보안 커넥터 설치 제거에 대한 정보를 제공합니다.

## 이 태스크 정보

다음 프로시저를 사용하면 보안 커넥터 및 그의 모든 구성 설정을 설치 제거할 수 있습니다.

## 프로시저

1. 브라우저나 명령 셸 같은 다른 프로그램이 보안 커넥터 디렉토리 중 하나를 열어두지 않았는지 확인하십시오.
2. Windows 시작 단추에서 모든 프로그램 > IBM > Cast Iron 보안 커넥터 <connector\_name> > 보안 커넥터 중지 를 선택하십시오.
3. Windows 시작 단추에서 모든 프로그램 > IBM > Cast Iron 보안 커넥터 <connector\_name> > 보안 커넥터 설치 제거를 선택하십시오. 설치 제거 프로그램 창이 표시됩니다.

4. C:\Program Files\IBM\Secure\_Connector\_<connector\_name>의 삭제 강제 실행을 선택하십시오.
5. 설치 제거를 클릭하십시오.
6. 상태 표시줄이 [Finished]를 표시할 때, 설치 제거 프로그램 창을 닫을 수 있습니다.

상위 주제: [보안 커넥터 사용](#)

## 보안 커넥터 설치 제거(Linux)

이 주제는 Linux 머신에서 보안 커넥터 설치 제거에 관한 정보를 제공합니다.

### 시작하기 전에

Linux 머신에서 보안 커넥터를 설치 제거하려면 루트 레벨 권한이 있어야 합니다.

### 이 태스크 정보

그래픽 인터페이스를 사용하거나 명령행 명령을 사용하거나 Java™ 설치 제거 .jar 파일을 실행하여 보안 커넥터를 설치 제거할 수 있습니다. Linux 머신에서 보안 커넥터 및 그의 모든 구성 설정을 설치 제거하려면 다음 옵션 중 하나를 선택하십시오.

**그래픽 인터페이스를 사용하여 보안 커넥터 설치 제거:** 이 프로시저를 사용하여 보안 커넥터를 성공적으로 설치 제거하려면 GNOME 또는 KDE 같은 데스크탑 환경이 있어야 합니다.

1. 브라우저나 명령 셸 같은 다른 프로그램이 보안 커넥터 디렉토리 중 하나를 열어두지 않았는지 확인하십시오.
2. 애플리케이션 디렉토리에서 IBM > Cast Iron 보안 커넥터 <connector\_name> > 보안 커넥터 종지를 선택하십시오.
3. 애플리케이션 디렉토리에서 IBM > Cast Iron 보안 커넥터 <connector\_name> > 보안 커넥터 설치 제거를 선택하십시오.

**명령 프롬프트에서 보안 커넥터 설치 제거:**

1. 브라우저나 명령 셸 같은 다른 프로그램이 보안 커넥터 디렉토리 중 하나를 열어두지 않았는지 확인하십시오.
2. 명령 프롬프트에서 ./Uninstaller/uninstall.sh 명령을 실행하십시오.

**.jar 파일을 사용하여 보안 커넥터 설치 제거.** 이 프로시저를 사용하여 보안 커넥터를 성공적으로 설치 제거하려면 Java 버전 1.6 이상이 설치되어 있어야 합니다.

1. 브라우저나 명령 셸 같은 다른 프로그램이 보안 커넥터 디렉토리 중 하나를 열어두지 않았는지 확인하십시오.
2. 명령 프롬프트에서 runclient\_osgi.sh stop 명령을 입력하십시오.
3. 보안 커넥터를 설치한 디렉토리에서, Uninstaller 서브디렉토리로 이동하여 uninstaller.jar 파일을 찾으십시오(" \${JAVA}" -jar "\${INSTALL\_DIR}/Uninstaller/uninstaller.jar"). 여기서 {JAVA}는 Java 실행 파일이고 {INSTALL\_DIR}은 보안 커넥터 이름입니다.

대화 상자가 표시됩니다.

4. 삭제 강제 실행... 옵션을 선택하십시오.
5. 설치 제거를 클릭하십시오.
6. 종료를 클릭하십시오.

### 결과

보안 커넥터가 설치 제거됩니다. 구성 설정이 홈 디렉토리에서 유지됩니다.

## 보안 커넥터 시작 및 중지

보안 커넥터 시작 및 중지 주제는 Windows 및 Linux 머신에서 보안 커넥터 시작 및 중지 방법에 관한 정보를 제공합니다. Windows 머신의 경우, 설치 중에 선택한 옵션이 보안 커넥터를 시작 및 중지하는 방법에 영향을 줍니다. 권장하는 대로 보안 커넥터를 자동 Windows 서비스로서 설치한 경우, Windows 서비스 제어판을 사용하여 보안 커넥터를 중지 및 시작할 수 있습니다. 보안 커넥터를 Windows 애플리케이션으로서 설치한 경우, Windows 시작 메뉴 바로 가기 또는 데스크탑 단축 아이콘을 사용하여 보안 커넥터를 시작 및 중지할 수 있습니다. Linux 머신의 경우, 그래픽 인터페이스를 사용하거나 명령행에서 명령을 실행하여 보안 커넥터를 시작 및 중지할 수 있습니다.

- [Windows에서 보안 커넥터\(Windows 서비스로 설치된\) 시작 및 중지](#)  
이 주제는 Windows 머신에서 보안 커넥터 시작 및 중지 방법에 관한 정보를 제공합니다. 여기에서 Windows 서비스로 설치되는 보안 커넥터가 있습니다.
- [Windows 서비스를 위한 대화식 모드 사용 설정](#)  
보안 커넥터가 Windows 서비스로서 설치될 때, 서비스에 대한 대화식 모드가 트레이 아이콘 및 명령 창을 볼 수 있게 하십시오.
- [Windows에서 보안 커넥터\(Windows 애플리케이션으로 설치됨\) 시작 및 중지](#)  
이 주제는 Windows 머신에서 보안 커넥터 시작 및 중지 방법에 관한 정보를 제공합니다. 여기에서 Windows 애플리케이션으로 설치되는 보안 커넥터가 있습니다.
- [Linux에서 보안 커넥터 시작 및 중지](#)  
이 주제는 Linux 머신에서 보안 커넥터 시작 및 중지 방법에 관한 정보를 제공합니다.

## Windows에서 보안 커넥터(Windows 서비스로 설치된) 시작 및 중지

이 주제는 Windows 머신에서 보안 커넥터 시작 및 중지 방법에 관한 정보를 제공합니다. 여기에서 Windows 서비스로 설치되는 보안 커넥터가 있습니다.

### 이 태스크 정보

보안 커넥터를 자동 Windows 서비스로서 설치한 경우, 권장하는 대로 Windows 서비스 제어판을 사용하여 보안 커넥터를 중지하거나 다시 시작하십시오.

기본적으로, 보안 커넥터가 Windows 서비스로서 설치될 때 보안 커넥터는 Windows 데스크탑과 상호작용하도록 구성되지 않습니다. 그러나 보안 커넥터 서비스가 로컬 시스템 계정으로 설치된 경우, 보안 커넥터 서비스가 실행 중일 때 시스템 트레이 아이콘과 명령 창을 표시하는 대화식 모드를 사용 가능하게 할 수 있습니다.

Windows 서비스에 대한 대화식 모드를 사용으로 설정하는 단계에 대해서는 Windows 서비스에 대해 대화식 모드 사용을 참조하십시오.

참고: 보안 커넥터 시작 시작 메뉴 바로 가기나 데스크탑 단축 아이콘을 사용하여 보안 커넥터를 시작하는 경우, 보안 커넥터는 서비스로서가 아니라 정상 애플리케이션으로서 시작합니다. 보안 커넥터를 서비스로서 시작하려면 Windows 서비스 제어판을 사용해야 합니다. 보안 커넥터 중지 시작 메뉴 바로 가기 또는 데스크탑 단축 아이콘을 사용하여 보안 커넥터를 중지할 수 있습니다.

**Windows 서비스 제어판을 사용한 보안 커넥터 시작 및 중지:**

### 프로시저

1. Windows 서비스 창을 여십시오(시작 > 제어판 > 관리 도구 > 서비스).
2. 서비스 목록을 아래로 스크롤하여 IBM® 보안 커넥터 서비스를 찾으십시오.
3. IBM 보안 커넥터 서비스를 마우스 오른쪽 단추로 클릭하고 적당한 명령(시작, 중지, 일시정지, 재개 또는 다시 시작)을 선택하십시오.

상위 주제: [보안 커넥터 시작 및 중지](#)

## Windows 서비스를 위한 대화식 모드 사용 설정

보안 커넥터가 Windows 서비스로서 설치될 때, 서비스에 대한 대화식 모드가 트레이 아이콘 및 명령 창을 볼 수 있게 하십시오.

### 이 태스크 정보

기본적으로, 보안 커넥터가 Windows 서비스로서 설치될 때 보안 커넥터는 Windows 데스크탑과 상호작용하도록 구성되지 않습니다. 그러나 보안 커넥터 서비스가 로컬 시스템 계정으로 설치된 경우, 보안 커넥터 서비스가 실행 중일 때 시스템 트레이 아이콘과 명령 창을 표시하는 대화식 모드를 사용 가능하게 할 수 있습니다.

### 프로시저

1. 서비스 제어판을 여십시오. 예를 들어, 시작 > 제어판 > 관리 도구 > 서비스를 클릭하십시오.
2. 보안 커넥터 서비스에서 Cast Iron을 선택하십시오.
3. 서비스 이름을 마우스 오른쪽 단추로 클릭하고 특성을 선택하십시오. 서비스 특성 창이 표시됩니다.
4. 로그인 탭을 선택하십시오.
5. 로컬 시스템 계정을 선택한 후 서비스가 데스크탑과 상호작용 허용을 선택하십시오.
6. 확인을 클릭하십시오.
7. 다시 시작을 클릭하십시오.

### 결과

Cast Iron® 보안 커넥터 서비스가 다시 시작될 때, 시스템 트레이 아이콘과 명령 창이 표시됩니다.

참고: 명령 창을 최소화할 수 있습니다. 그러나, 명령 창을 닫으면 Cast Iron 보안 커넥터 서비스가 중지되고 종료됩니다. 명령 창을 닫는 것은 Windows 서비스 제어판에서 보안 커넥터 서비스를 중지하는 것과 동일합니다.

상위 주제: [보안 커넥터 시작 및 중지](#)

## Windows에서 보안 커넥터(Windows 애플리케이션으로 설치됨) 시작 및 중지

이 주제는 Windows 머신에서 보안 커넥터 시작 및 중지 관련 정보를 제공합니다. 여기에서 Windows 애플리케이션으로 설치되는 보안 커넥터가 있습니다.

### 이 태스크 정보

보안 커넥터가 Windows 머신에 Windows 서비스가 아니라 Windows 애플리케이션으로 설치될 때, Windows 시작 메뉴 바로 가기 또는 데스크탑 단축 아이콘을 사용하여 보안 커넥터를 시작 및 중지할 수 있습니다.

### 프로시저

1. Windows 시작 메뉴 바로 가기 또는 데스크탑 단축 아이콘에서 보안 커넥터를 시작하십시오.
  - Windows 시작 단추에서 모든 프로그램 > IBM > Cast Iron 보안 커넥터 <connector\_name> > 보안 커넥터 시작을 선택하십시오.
  - Windows 데스크탑에서, 보안 커넥터를 시작하려면 보안 커넥터 시작 바로 가기를 클릭하십시오.
2. Windows 시작 메뉴 바로 가기 또는 데스크탑 단축 아이콘에서 보안 커넥터를 중지하십시오.
  - Windows 시작 단추에서 모든 프로그램 > IBM > Cast Iron 보안 커넥터 <connector\_name> > 보안 커넥터 중지를 선택하십시오.
  - Windows 데스크탑에서, 보안 커넥터를 중지하려면 보안 커넥터 중지 바로 가기를 클릭하십시오.

상위 주제: [보안 커넥터 시작 및 중지](#)

## Linux에서 보안 커넥터 시작 및 중지

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이 주제는 Linux 머신에서 보안 커넥터 시작 및 중지 관련 정보를 제공합니다.

### 이 태스크 정보

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GNOME 또는 KDE와 같은 데스크탑 환경이 있는 경우, 메뉴 바로 가거나 데스크탑 단축 아이콘을 사용하여 보안 커넥터를 시작 및 중지할 수 있습니다. 또한 명령행을 사용하여 보안 커넥터를 시작 및 중지할 수 있습니다.

### 프로시저

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1. 메뉴 바로 가기, 데스크탑 단축 아이콘 또는 명령행 중 하나에서 보안 커넥터를 시작하십시오. 다음 옵션 중 하나를 선택하십시오.
  - <application> > IBM® > Cast Iron® 보안 커넥터 <connector\_name> > 보안 커넥터 시작을 선택하십시오.
  - 데스크탑에서, 보안 커넥터 시작 바로 가기를 클릭하여 보안 커넥터를 시작하십시오.
  - 명령 프롬프트에서 `runclient_osgi.sh start`를 입력하십시오.
2. 메뉴 바로 가기, 데스크탑 단축 아이콘 또는 명령행 중 하나에서 보안 커넥터를 중지하십시오. 다음 옵션 중 하나를 선택하십시오.
  - <application> > IBM > Cast Iron 보안 커넥터 <connector\_name> > 보안 커넥터 중지를 선택하십시오.
  - 데스크탑에서, 보안 커넥터 중지 바로 가기를 클릭하여 보안 커넥터를 중지하십시오.
  - 명령 프롬프트에서 `runclient_osgi.sh stop`를 입력하십시오.

상위 주제: [보안 커넥터 시작 및 중지](#)

## 보안 커넥터 업그레이드

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이 주제는 보안 커넥터 업그레이드에 관한 정보를 제공합니다.

### 프로시저

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1. 새 보안 커넥터를 작성하십시오.
2. 운영 체제를 바탕으로 보안 커넥터 설치 프로그램의 최신 버전을 다운로드하십시오. 예를 들면, Windows 또는 Linux.
3. Windows 또는 Linux 머신에서, 보안 커넥터 설치 프로그램을 시작하십시오. Cast Iron® 보안 커넥터 마법사가 업그레이드 프로세스를 안내합니다.

참고: 최신 버전보다 더 높거나 동일한 보안 커넥터 설치가 이미 있는 경우, 기존 설치가 있으며 대안으로 기존 설치를 업그레이드할 수 있음을 나타내는 경고 메시지가 표시됩니다.



참고: 업그레이드하기 전에 보안 커넥터를(이미 시작된 경우) 중지해야 합니다.

참고: 보안 커넥터 업그레이드 프로세스를 진행하기 전에 다음을 확인하십시오.

- 보안 커넥터를 중지했음
  - <secure\_connector\_install\_path>/etc/security 또는 jre/lib에 위치한 인증서(있는 경우)의 수동 백업을 작성했음. 업그레이드 후에 인증서를 대체/추가하기 원할 수 있습니다.
4. 업그레이드 옵션을 클릭하십시오. 설치된 경로 선택 목록 상자가 표시됩니다.
  5. 목록 상자에 표시되는 경우 보안 커넥터 설치 경로를 선택하십시오. 또는, 찾아보기 단추를 클릭하여 설치된 경로를 선택하십시오.
  6. 다음을 클릭한 후, 라이선스 계약을 읽고 동의하십시오.
  7. 다음을 클릭하십시오. 설치 진행상태가 표시됩니다. 설치가 성공적으로 완료되었다는 메시지가 표시됩니다. 설치 프로그램에 대한 경로도 표시됩니다.
  8. 완료를 클릭하십시오.
  9. 보안 커넥터를 시작하십시오.

상위 주제: [보안 커넥터 사용](#)

## 보안 커넥터 문제점 해결

이 주제는 보안 커넥터에 대해 갖는 문제에 대한 잠재적 솔루션을 제공합니다.

보안 커넥터 로그 파일을 검토할 수 있습니다. 보안 커넥터의 초기 시작 후에 Log 디렉토리가 작성됩니다. Log 디렉토리는 보안 커넥터 설치 디렉토리에 있습니다. 예: C:\Program Files\IBM\Secure\_Connector\_1.development\logs

- 포트 경합 오류가 발생합니다. 두 보안 커넥터가 동일한 포트 및 게이트웨이를 사용하도록 구성될 때 포트 경합이 발생할 수 있습니다. 이 문제를 해결하려면 각 보안 커넥터 구성 파일에서 게이트웨이, 청취 포트 및 전송 포트 매개변수에 대한 고유한 값을 제공하십시오.
- 보안 커넥터를 설치 제거하기 위해 .jar 파일을 실행할 수 없습니다. Java™ 경로가 올바르게 지정되었고 머신에 Java 버전 1.6x 이상이 설치되어 있는지 확인하십시오.

상위 주제: [보안 커넥터 사용](#)

## 보안

보안 주제는 인증서 생성 및 관리, LDAP 설정 구성 및 Kerberos 설정 구성에 관한 정보를 제공합니다.

- [인증서 정보](#)  
인증서는 통합 어플라이언스와 사용자의 인트라넷 및 엑스트라넷에 위치한 엔드포인트 사이의 보안 통신을 가능하게 합니다. 인증서를 관리하려면 관리 콘솔을 사용하십시오.
- [Kerberos 구성](#)
- [LDAP 메커니즘 특성 구성](#)
- [보안 설정 편집](#)
- [LDAP 디렉토리 서버 사용 설정](#)
- [인증서 내보내기](#)
- [인증서 서명 요청 생성](#)
- [자체 서명 인증서 생성](#)
- [인증서 가져오기](#)
- [인증서 별명 이름 바꾸기](#)
- [인증서 업로드](#)

## 인증서 정보

인증서는 통합 어플라이언스와 사용자의 인트라넷 및 엑스트라넷에 위치한 엔드포인트 사이의 보안 통신을 가능하게 합니다. 인증서를 관리하려면 관리 콘솔을 사용하십시오.

인증서 페이지에서 보안 인증서 및 보안 설정을 생성, 가져오기 및 업데이트할 수 있습니다.

다음 테이블은 인증서 용어에 대한 정의를 제공합니다.

인증서 용어	정의
별명	보다 사용자에게 친숙한 이름을 제공하기 위해 키 저장소 또는 신뢰 저장소 항목에 지정하는 영숫자 문자의 문자열입니다. 키 저장소 또는 신뢰 저장소 내에서 별명을 사용하여 키와 인증서를 참조할 수 있습니다. 참고: 별명은 대소문자를 구분하지 않습니다. 예를 들어, MyCert와 mycert는 동일한 항목을 참조합니다.
인증서	엔드포인트 또는 조직을 식별하는 서명된 신임 정보입니다.
키 쌍	공개 키 및 연관된 개인 키입니다.
키 저장소	Java™ SSL 엔드포인트가 사용하는 개인 및 인증서를 수용하는 Java 데이터 저장소입니다. 예를 들어, 로컬 Java 엔드포인트는 자신을 원격 SSL 엔드포인트에 식별하기 위해 키 저장소의 인증서를 신임 정보로서 제공합니다.
PKI	공개 키 인프라(PKI)는 암호화 키 및 식별 정보를 관리하기 위한 시스템입니다. 시스템의 목적은 인터넷을 통한 통신 보호/보안을 위해 표준 기반 시스템을 제공하는 것입니다.
개인 키	데이터를 암호화 및/또는 서명하는 데 사용되는 단일 엔드포인트에만 알려지는 키입니다.
공개 키	누구에게나 분배될 수 있는 개인 키와 연관된 키입니다.
SSL	SSL(Secure Socket Layer)은 보안 웹 통신을 가능하게 하고 엔드포인트가 선택적으로 서로 인증하도록 허용합니다.
신뢰 저장소	인증 기관 서명 인증서를 수용하는 Java 데이터 저장소입니다. 예를 들어, 로컬 Java 엔드포인트는 신뢰 저장소를 이용하여 원격 SSL 엔드포인트에 의해 제공되는 ID(인증서)를 인증합니다.

상위 주제: [보안](#)

## Kerberos 구성

### 이 태스크 정보

통합 어플라이언스가 비보안 네트워크를 통해 데이터를 교환 중일 때, Kerberos 프로토콜을 사용하면 통합 어플라이언스가 통신 중인 서버를 통합 어플라이언스가 인증할 수 있습니다.

### 프로시저

1. 탐색 분할창에서 보안 > Kerberos를 선택하십시오. Kerberos 구성 페이지가 표시됩니다.
2. Kerberos 서버 이름을 지정하십시오.
3. Kerberos 영역을 지정하십시오.
4. 저장을 클릭하십시오.

삭제를 클릭하면 사용자가 지정한 설정이 지워집니다.

## LDAP 메커니즘 특성 구성

### 이 태스크 정보

LDAP 서버를 사용으로 설정하는 동안 보안 연결(SASL) 사용 보안 옵션을 선택한 경우, 메커니즘 정책을 지정하고 메커니즘 특성을 구성해야 합니다.

LDAP 메커니즘 특성 및 LDAP 메커니즘 정책은 다음 표에서 더 설명됩니다.

### 프로시저

1. 탐색 분할창에서 보안 > LDAP을 선택하십시오. LDAP 구성 페이지가 표시됩니다.
2. 보안 옵션 섹션에서 보안 연결(SASL) 사용을 선택하십시오.
3. 인증 섹션에서 고급 설정을 클릭하십시오. 메커니즘 정책 및 메커니즘 특성에 대한 옵션이 표시됩니다.
4. 적절한 옵션을 선택하고 드롭 다운 목록에서 적당한 값을 선택하십시오.

상위 주제: 보안

## LDAP 메커니즘 특성

메커니즘 특성	설명
QOP(보호 품질)	<p>LDAP 디렉토리 서버가 사용하는 보호 품질을 지정하는 특성을 지명합니다. 이 특성은 클라이언트 또는 서버가 지원하는 보호 품질 값의 심표로 구분되고 정렬된 목록을 포함합니다. 다음이 유효한 QOP 값입니다.</p> <p>auth     인증만</p> <p>auth-int     인증 더하기 무결성 보호</p> <p>auth-conf     인증 더하기 무결성 및 기밀성 보호</p> <p>목록의 순서가 클라이언트 또는 서버의 우선 순위를 지정합니다. 값을 지정하지 않는 경우 기본 QOP는 auth입니다.</p>

메커니즘 특성	설명
암호화 수준	<p>LDAP 디렉토리 서버가 사용하는 암호화 수준을 지정하는 특성의 이름을 지정합니다. 이 특성은 클라이언트 또는 서버가 지원하는 암호화 수준 값의 심표로 구분되고 정렬된 목록을 포함합니다. 다음은 유효한 암호화 수준 값입니다.</p> <ul style="list-style-type: none"> <li>• low</li> <li>• medium</li> <li>• high</li> </ul> <p>목록의 순서가 선호하는 클라이언트 또는 서버 순서를 지정합니다. 구현이 이들 값의 의미를 구성하도록 허용해야 합니다. 애플리케이션은 JCE(Java™ Cryptography Extension)를 JCE 인식 메커니즘과 함께 사용하여 수준 값과 일치하는 암호 스위트의 선택을 제어할 수 있습니다.</p> <p>값을 지정하지 않는 경우 기본 암호화 수준은 low입니다.</p>
최대 버퍼 크기	<p>수신 버퍼의 최대 크기를 바이트 단위로 지정합니다. 값을 지정하지 않는 경우 기본 크기는 메커니즘에 의해 정의됩니다. 올바른 값의 범위는 0 - 65536입니다.</p>
상호 인증	<p>서버가 클라이언트에 인증해야 하는지 여부를 지정하는 특성의 이름을 지정합니다. 서버가 클라이언트에 인증해야 하는 경우 특성 이름이 true를 포함하며, 그렇지 않으면 false를 포함합니다. 기본적으로, 이 값은 false를 포함합니다.</p>

## LDAP 메커니즘 정책

메커니즘 정책	설명
비밀 전달	<p>세션 사이에서 비밀 전달을 구현하는 메커니즘이 필수인지 여부를 지정하는 특성의 이름을 지정합니다. 비밀 전달은 한 세션으로 구분하는 것이 자동으로 향후 세션으로의 구분에 대한 정보를 제공하지는 않음을 의미합니다. 이 특성은 세션 사이의 비밀 전달을 구현하는 메커니즘이 필수인 경우 true를 포함하고 그런 메커니즘이 필수가 아닌 경우 false를 포함합니다. 기본적으로, 이 값은 false를 포함합니다.</p>
클라이언트 신임 정보	<p>클라이언트 신임 정보를 전달하는 메커니즘이 필수인지 여부를 지정하는 특성의 이름을 지정합니다. 이 특성은 클라이언트 신임 정보를 전달하는 메커니즘이 필수인 경우 true를 포함하고 그런 메커니즘이 필수가 아닌 경우 false를 포함합니다. 기본적으로, 이 값은 false를 포함합니다.</p>
수동 공격에 취약함	<p>단순 일반 수동 공격에 취약한 메커니즘(예: PLAIN)이 허용되지 않는지 여부를 지정하는 특성의 이름을 지정합니다. 이 특성은 그런 메커니즘이 허용되지 않는 경우 true를 포함하고 그런 메커니즘이 허용되는 경우 false를 포함합니다. 기본적으로, 이 값은 false를 포함합니다.</p>
능동 공격에 취약함	<p>능동(비사전) 공격에 취약한 메커니즘이 허용되지 않는지 여부를 지정하는 특성의 이름을 지정합니다. 이 특성은 능동 공격에 취약한 메커니즘이 허용되지 않는 경우 true를 포함하고 그런 메커니즘이 허용되는 경우 false를 포함합니다. 기본적으로, 이 값은 false를 포함합니다.</p>

메커니즘 정책	설명
사전 공격에 취약함	수동적 사전 공격에 취약한 메커니즘이 허용되지 않는지 여부를 지정하는 특성의 이름을 지정합니다. 이 특성은 사전 공격에 취약한 메커니즘이 허용되지 않는 경우 true를 포함하고 그런 메커니즘이 허용되는 경우 false를 포함합니다. 기본적으로, 이 값은 false를 포함합니다.
익명 공격에 취약함	익명 로그인을 허용하는 메커니즘이 허용되지 않는지 여부를 지정하는 특성의 이름을 지정합니다. 이 특성은 익명 로그인을 허용하는 메커니즘이 허용되지 않는 경우 true를 포함하고 그런 메커니즘이 허용되는 경우 false를 포함합니다. 기본적으로, 이 값은 false를 포함합니다.

## 보안 설정 편집

### 프로시저

1. 설정 섹션에서 편집을 클릭하십시오. 설정 편집 대화 상자가 표시됩니다.
2. 대응하는 카테고리에서 사용할 인증서를 선택하십시오. 예: 클라이언트 SSL, 데이터 NIC를 통한 서버 SSL, mgmt NIC를 통한 서버 SSL.
3. 적절한 경우 VPeer 선택란을 선택하십시오.
  - VPeer 선택은 통합 어플라이언스가 피어에 의해 제공되는 인증서를 사용하여 SSL 피어의 ID를 인증함을 의미합니다.
  - 클라이언트 SSL 카테고리에 대해 선택될 때, 통합 어플라이언스는 서버가 전송하는 인증서를 사용하여 SSL 서버의 ID를 인증합니다.
  - 데이터 NIC를 통한 서버 SSL 카테고리에 대해 선택될 때, 통합 어플라이언스는 통합 어플라이언스에 연결하는 SSL 클라이언트가 인증서를 전송해야 함을 요구합니다.
4. 적절한 경우 VHost 선택란을 선택하십시오.
  - VHost 선택은 통합 어플라이언스가 SSL 세션에 있는 서버의 호스트 이름이 서버 인증서에 포함된 이름과 일치함을 확인함을 의미합니다. 이 선택은 중간자(man-in-the-middle; MITM) 공격을 막기 위해 설계되며 RFC 2818 *HTTP Over TLS* Section 3.1 *Server Identity*에서 설명됩니다.
  - VHost 선택은 클라이언트 SSL 카테고리에만 적용할 수 있습니다.
  - VHost 선택은 VPeer도 선택될 때만 적용할 수 있습니다.
5. 암호화 수준을 선택하십시오.
  - 표준
  - 강함
6. 저장을 클릭하십시오.

상위 주제: [보안](#)

## LDAP 디렉토리 서버 사용 설정

### 이 태스크 정보

WMC에서 LDAP 서버가 사용자 인증 및 권한 부여를 처리하게 할 것을 선택할 수 있습니다. LDAP 디렉토리 서버를 사용으로 설정할 때, LDAP 디렉토리 서버의 인증 및 권한 부여가 기본 제공 관리 사용자의 경우를 제외하고 WMC를 통해 지정한 모든 사용자, 그룹 또는 권한을 대체합니다. 그러므로 관리 사용자는 예외로 하고 LDAP 디렉토리 서버 또는 WMC를 통해

(둘 다는 아님) 사용자 및 그룹을 인증 및 권한 부여할 수 있습니다. LDAP을 사용으로 설정하는지 여부와 상관없이, CLI를 통해 관리 사용자 비밀번호를 업데이트할 수 있습니다.

참고: LDAP 사용자는 스테이징 데이터베이스에 액세스할 수 없습니다.

## 프로시저

1. 탐색 분할창에서 보안 > LDAP을 선택하십시오. LDAP 구성 페이지가 표시됩니다.
2. LDAP 사용 옵션을 선택하십시오. 이 옵션을 선택하지 않는 경우, 통합 어플라이언스는 사용자가 WMC에서 정의한 기본 제공 그룹 및 사용자를 사용하여 사용자 및 WMC에 대한 액세스를 인증 및 권한 부여합니다.
3. 호스트 정보를 지정하십시오.
  - a. LDAP 디렉토리 서버의 호스트 이름과 포트 번호를 입력하십시오.
  - b. 기본 DN(기본 식별 이름)을 선택하거나 폐치 DN을 클릭하십시오. WMC는 LDAP 디렉토리 서버로부터 모든 디렉토리 정보 트리(DIT)의 기본 DN을 폐치합니다. 권한 부여하려는 사용자를 포함하는 DIT의 기본 DN을 선택하십시오.
4. 다음 보안 옵션 중 하나를 선택하십시오.
  - **보안 연결(SASL) 사용** - LDAP 디렉토리 서버가 지원하는 SASL(Simple Authentication and Security) 메커니즘을 사용으로 설정합니다. 이것이 가장 안전한 옵션입니다.
  - **단순 인증 사용** - 단순 인증을 사용으로 설정하지만, 신임 정보를 암호화하지 않습니다.
  - **익명 바인딩** - LDAP 디렉토리 서버에 대한 익명 바인딩을 사용으로 설정합니다. 이것이 가장 덜 안전한 옵션입니다.
5. 보안 연결(SASL) 사용 보안 옵션을 선택한 경우, 메커니즘을 지정하고 메커니즘 특성 및 메커니즘 정책을 구성하십시오.
6. LDAP 디렉토리 서버가 디렉토리 검색을 위한 인증을 요구하는 경우, 신임 정보 섹션에 있는 프린시פל 및 비밀번호에 대한 값을 지정하십시오. 작성된 DN 모드 인증 모드를 선택할 때는 이 단계가 필요하지 않습니다. 그러나 이 단계는 LDAP 디렉토리 서버가 익명 검색을 허용하지 않을 때 DN 또는 메커니즘을 폐치하기 위해 필요할 수 있습니다.

비밀번호를 지정하지 않는 경우, WMC는 익명 사용자로서 LDAP 서버로의 초기 바인딩을 작성하려고 시도하며 LDAP 서버는 사용자가 지정한 프린시פל 신임 정보를 무시합니다.

7. 다음 인증 모드 중 하나를 선택하십시오.
  - 작성된 DN 모드
  - 검색된 DN 모드
8. 사용자 컨테이너 RDN을 지정하십시오. 사용자가 지정하는 인증 모드가 여기에서 지정해야 하는 값을 판별합니다.
  - 작성된 DN 모드를 선택한 경우, 사용자 컨테이너 RDN이 사용자 DN의 하나 이상의 속성으로 작성됩니다. 사용자의 바로 위 조상부터 기본 바로 아래의 항목까지 트리를 따라 이동하고 경로에 각 항목의 RDN을 추가하여 사용자 컨테이너 RDN을 구성하십시오.

예를 들어,

```
User DN = "uid=JohnK,ou=emp,dc=xyz,dc=com"
```

인 경우

```
사용자 컨테이너 RDN = "ou=emp"
```

- 검색된 DN 모드를 선택한 경우 사용자 컨테이너 RDN은 대개 공백으로 남는데, 이것은 LDAP 디렉토리 서버가 루트(기본)에서 시작하여 전체 DIT를 검색하게 만듭니다. 그렇지 않으면, LDAP 디렉토리 서버가 DN = User Container RDN + BaseDN을 갖는 항목에 루트를 갖는 서브트리를 검색합니다.
9. 검색된 DN 모드를 선택한 경우, LDAP 디렉토리 서버가 사용자 DN을 검색하기 위해 사용하는 사용자 검색 필터를 지정하십시오(검색 DN 모드를 선택하는 경우에만 필수임). 이 항목은 LDAP 검색 필터 스펙을 허용하며 또한 \$USERNAME 양식의 사용자 이름도 허용합니다. 예를 들면,
    - MSAD에서 이 항목은 "(samAccountName=\$USERNAME)"일 수 있습니다.

- o SunOne에서 이 항목은 "(uid=\$USERNAME)"일 수 있습니다.
10. LDAP 디렉토리 서버가 검색 후에 바인드하는 사용자의 DN을 지정하는 사용자 프린시플 DN을 지정하십시오.  
\$USERNAME 또는 \$DN을 지정하여 사용자 이름 및 식별 이름을 나타낼 수 있습니다. 여기서 \$DN은 작성 DN 모드  
의 경우 (RDN+BaseDN) 및 검색 DN 모드의 경우 검색된 DN을 나타냅니다. 대부분의 경우 \$DN은 항목입니다. 그  
러나, MSAD에서 SASL을 사용할 때는 \$USERNAME만 지정해야 할 수 있습니다. SunOne의 SASL의 경우  
"dn:\$DN"만 지정해야 할 수 있습니다.
  11. 그룹 맵핑 정보를 지정하십시오.
    - a. 관리 그룹 필터를 지정하십시오.
    - b. 공개자 그룹 필터를 지정하십시오.
    - c. 그룹 필터를 지정하십시오.
  12. 저장을 클릭하십시오.

상위 주제: [보안](#)

## 인증서 내보내기

### 프로시저

1. 키 저장소 섹션에서 별명을 클릭하십시오. 인증서 세부사항 창이 표시됩니다.
2. 내보내기를 클릭하십시오. 인증서 내보내기 대화 상자가 표시됩니다.
3. 내보내기 형식을 선택하십시오.
4. 비밀번호를 제공하십시오.
5. 내보내기를 클릭하십시오.

상위 주제: [보안](#)

## 인증서 서명 요청 생성

### 프로시저

1. 키 저장소 섹션에서 별명을 클릭하십시오. 인증서 세부사항 창이 표시됩니다.
2. CSR 생성을 클릭하십시오. 인증서 콘텐츠 창이 표시됩니다.
3. 복사를 클릭하십시오. 창의 전체 콘텐츠가 복사됩니다.
4. 다운로드를 클릭하고 다운로드할 위치를 지정하십시오.
5. 저장을 클릭하십시오. 인증서 콘텐츠가 지정된 위치로 다운로드됩니다.

상위 주제: [보안](#)

## 자체 서명 인증서 생성

### 프로시저

1. 키 저장소 섹션에서 생성을 클릭하십시오. 자체 서명 인증서 생성 대화 상자가 표시됩니다.
2. 다음 매개변수의 값을 지정하십시오.

별명  
공통 이름(CN)  
조직(O)

조직 단위(OU)  
국가(C)  
구/군/시(ST)  
로케일(L)  
이메일(EMAILADDRESS)  
OID  
키 알고리즘  
키 길이  
유효

3. 생성을 클릭하십시오.

## 결과

---

자체 서명 인증서가 키 저장소 테이블에 표시됩니다.

상위 주제: [보안](#)

## 인증서 가져오기

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### 이 태스크 정보

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인증서 또는 인증서 체인을 IBM® WebSphere® Cast Iron® 키 저장소로 가져올 수 있습니다. 또한 신뢰할 수 있는 인증 기관 인증서(CA Certs)를 신뢰 저장소로 가져올 수도 있습니다.

### 프로시저

---

1. 키 저장소 또는 신뢰 저장소 섹션에서 가져오기를 클릭하십시오. 인증서 가져오기 대화 상자가 표시됩니다.
2. 별명을 입력하십시오. 이 이름이 가져온 인증서 또는 인증서 체인을 식별하는 데 사용됩니다.
3. 옵션: 키 비밀번호를 입력하십시오.

비밀번호가 별명과 연관된 키 쌍의 개인 키를 보호합니다. 비밀번호를 지정하지 않는 경우, 비밀번호는 키 저장소를 보호하는 비밀번호로 기본 설정됩니다.

4. 신뢰하는 사이트에서 인증서를 가져오려는 경우 신뢰 옵션을 선택하십시오.

신뢰 옵션을 선택하는 경우, 기존 신뢰 체인을 검사하지 않고 인증서를 가져옵니다. 신뢰 옵션을 선택하는 경우, 신뢰 체인이 가져올 인증서에 대해 존재하는지 확인하기 위해 키 저장소 및 신뢰 저장소 옵션을 검사합니다.

5. 가져올 인증서 또는 인증서 체인을 포함하는 파일 또는 클립보드의 콘텐츠에서 해당 콘텐츠를 가져올 것을 선택하십시오.

키 저장소로 가져올 때, 지원되는 형식은 PKCS12를 포함합니다. 신뢰 저장소로 가져올 때, 지원되는 형식은 CER/PEM(RFC 1421), DER 및 PKCS7을 포함합니다.

6. 가져오기를 클릭하십시오.

## 결과

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인증서가 인증서 페이지에 표시됩니다.

상위 주제: [보안](#)



# 인증서 별명 이름 바꾸기

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## 프로시저

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1. 인증서 페이지에서 별명을 클릭하십시오. 인증서 세부사항 대화 상자가 표시됩니다.
2. 이름 바꾸기를 클릭하십시오.
3. 별명 필드에 새 별명을 입력하십시오.
4. 적용을 클릭하십시오.

## 결과

---

업데이트된 별명이 인증서 페이지에 표시됩니다.

상위 주제: [보안](#)

# 인증서 업로드

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## 프로시저

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1. 키 저장소 섹션에서 별명을 클릭하십시오. 인증서 세부사항 창이 표시됩니다.
2. 업로드를 클릭하십시오. 인증서 업데이트 대화 상자가 표시됩니다.
3. 인증서를 신뢰하는 사이트로 업로드하려는 경우 신뢰 옵션을 선택하십시오.
4. 파일 또는 클립보드의 콘텐츠로부터 콘텐츠를 업로드할 것을 선택하십시오.
5. 가져오기를 클릭하십시오.

상위 주제: [보안](#)

# 로그에 대한 작업

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로그에 대한 작업 주제는 오케스트레이션 작업 로그 관리, 시스템 설정 지정 및 시스템 로그 보기에 관한 정보를 제공합니다.

- [아카이브된 로그 정보](#)  
관리 콘솔은 통합 어플라이언스가 아카이브한 로그 파일을 나열합니다. 이들 아카이브된 로그 파일을 다운로드할 수 있습니다.
- [아카이브된 로그 정보](#)  
로그는 로컬로 아카이브하거나 FTP 서버로 내보낼 수 있습니다. WMC에서 로컬로 아카이브된 로그를 다운로드할 수 있습니다(로그 > 아카이브 로그).
- [오케스트레이션 모니터링 로그 영구 제거](#)  
오케스트레이션 모니터링 로그를 영구 제거 및 아카이브할 수 있습니다.
- [시스템 로그 설정 지정](#)  
시스템 로그에 나타나는 세부사항의 레벨을 지정할 수 있습니다. 사용자가 지정하는 로그 레벨이 알림 정책에 대한 경보에 영향을 줍니다. 경보는 사용자가 지정하는 로그 레벨을 만족하거나 초과하는 이벤트에 대해서만 전송됩니다.
- [시스템 로그 보기](#)  
관리 콘솔에서 시스템 로그를 보고 시스템 로그 필터를 사용하여 시스템 로그 항목을 정렬할 수 있습니다.
- [시스템 로그 및 작업 로그의 열 사용자 정의](#)  
시스템 로그 및 작업 로그에 표시되는 열을 각각 사용자 정의할 수 있습니다.

## 아카이브된 로그 정보

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관리 콘솔은 통합 어플라이언스가 아카이브한 로그 파일을 나열합니다. 이들 아카이브된 로그 파일을 다운로드할 수 있습니다.

상위 주제: [로그에 대한 작업](#)

## 아카이브된 로그 파일 다운로드

---

### 프로시저

1. 탐색 분할창에서 로그 > 아카이브된 로그를 선택하십시오. 통합 어플라이언스에 대한 로그 파일이 해당 로그가 마지막으로 수정된 시기의 시간소인 및 로그 파일 크기에 관한 세부사항과 함께 표시됩니다.
2. 가장 최근 로그 파일을 가져오려면 새로 고치기를 클릭하십시오.
3. 다운로드할 로그 파일을 클릭하십시오. 메시지가 표시됩니다.
4. 지금 다운로드를 클릭하십시오.
5. 파일 저장 옵션을 선택하고 확인을 클릭하십시오.

## 아카이브된 로그 정보

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로그는 로컬로 아카이브하거나 FTP 서버로 내보낼 수 있습니다. WMC에서 로컬로 아카이브된 로그를 다운로드할 수 있습니다(로그 > 아카이브 로그).

오케스트레이션 모니터링 로그를 아카이브 또는 영구 제거할 수 있습니다. 오케스트레이션 모니터링 로그 파일을 아카이브 하도록 매개변수를 구성할 때, 통합 어플라이언스는 추가 오케스트레이션 모니터링 데이터를 영구 제거하도록 통합 어플라이언스를 트리거하는 조건을 풀링하기 전에 로그 파일을 아카이브합니다. 통합 어플라이언스의 로컬 디스크로 오케스트레이션 모니터링 데이터를 아카이브하거나 FTP 서버로 아카이브를 내보낼 수 있습니다. 아카이브 설정을 구성하지 않는 경우, 통합 어플라이언스는 기본 영구 제거 트리거 조건을 만족하는 모든 오케스트레이션 모니터링 데이터를 영구 제거합니다.

탐색 페이지에서 로그 > 아카이브 로그를 선택하여 아카이브된 로그 파일을 볼 수 있습니다. 로그를 내보낼 때 통합 어플라이언스가 `orcmon_export_<timestamp>.xml` 규약을 사용하여 내보낸 오케스트레이션 모니터링 로그의 이름을 지정합니다.

상위 주제: [로그에 대한 작업](#)

## 오케스트레이션 모니터링 로그를 로컬로 아카이브

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### 이 태스크 정보

로컬 파일에 영구 제거된 모니터링 데이터 아카이브 옵션을 선택하고 로그 영구 제거 트리거 조건 중 하나가 만족될 때, 통합 어플라이언스는 오케스트레이션 모니터링 로그를 통합 어플라이언스의 로컬 디스크로 내보냅니다.

참고: 오케스트레이션 모니터링 로그를 로컬로 아카이브할 때, 통합 어플라이언스의 디스크 공간의 가용성을 줄입니다. 디스크 공간이 채워질 때 영구 제거 트리거 조건이 더 빨리 아카이브를 생성합니다.

### 프로시저

1. 탐색 분할창에서 로그 > 작업 로그를 선택하십시오. 결과 페이지가 모든 오케스트레이션 모니터링 로그를 표시합니다.

2. 설정을 클릭하십시오. 작업 로그 설정 대화 상자가 표시됩니다.
3. 아카이브를 클릭하십시오.
4. 아카이브 설정 섹션에서 로컬 파일이 되도록 영구 제거된 모니터링 데이터 아카이브를 선택하십시오.
5. 이전에 내보낸 오케스트레이션 모니터링 로그를 대체하려면 내보낸 파일 대체를 선택하십시오. 이 옵션을 선택하지 않는 경우, 통합 어플라이언스는 오케스트레이션 모니터링 로그를 누적해서 저장합니다. 이것은 통합 어플라이언스가 매우 빨리 디스크 공간이 부족하도록 실행하고 성급하게 영구 제거를 트리거하게 만들 수 있습니다.
6. 저장을 클릭하십시오.

## 결과

통합 어플라이언스는 오케스트레이션 모니터링 로그를 로컬로 아카이브합니다. 아카이브 목록에서 아카이브를 선택하고 다운로드를 클릭하여 로컬로 저장된 아카이브를 다운로드할 수 있습니다.

## FTP 서버로 오케스트레이션 모니터링 로그 아카이브

### 이 태스크 정보

로컬 파일에 영구 제거된 모니터링 데이터 아카이브 옵션과 FTP 서버로 아카이브 전송 옵션을 선택하고 로그 영구 제거 트리거 조건 중 하나가 만족될 때, 통합 어플라이언스는 오케스트레이션 모니터링 로그를 FTP 서버로 내보냅니다. 모든 내보낸 로그 파일을 FTP 서버에 아카이브하거나 최신 아카이브가 이전 아카이브를 대체하게 만들 것을 선택했습니다.

### 프로시저

1. 탐색 분할창에서 로그 > 작업 로그를 선택하십시오. 결과 페이지가 모든 오케스트레이션 모니터링 로그를 표시합니다.
2. 설정을 클릭하십시오. 작업 로그 설정 대화 상자가 표시됩니다.
3. 아카이브를 클릭하십시오.
4. 아카이브 설정 섹션에서 로컬 파일이 되도록 영구 제거된 모니터링 데이터 아카이브를 선택하십시오.
5. FTP 서버에 아카이브 전송(영구 제거 후)을 선택하십시오.
6. (선택사항) 내보낸 파일 대체를 선택하여 이전에 내보낸 로그를 대체하십시오.
7. FTP 설정을 지정하십시오. FTP 설정에 대한 자세한 정보는 [표 1](#) 아래의 다음 표를 참조하십시오.
8. 저장을 클릭하십시오.

## FTP 서버로 이용률 데이터 아카이브

### 이 태스크 정보

통합 어플라이언스는 디스크 사용량, 메모리 사용량, 가비지 콜렉션 및 실행 중인 작업 수에 관한 데이터를 수집합니다. 이 자원 이용률 데이터는 런타임의 전체 성능 상태를 분석하고 추가 프로젝트를 위한 사용 가능 용량을 계산하는 데 도움이 될 수 있습니다. 통합 어플라이언스는 이 데이터를 maestro.stat라는 파일에 저장하며 데이터의 스냅샷을 FTP 서버로 아카이브하는 옵션을 제공합니다. 적절한 옵션을 선택할 때, 통합 어플라이언스에서 사용 가능한 모든 이용률 데이터가 수집되며 지정된 FTP 서버로 아카이브됩니다.

아카이브 파일이 작성되고 FTP 서버로 전송된 후, 통합 어플라이언스는 계속해서 새 이용률 데이터를 히스토리 이용률 데이터에 집계합니다. 히스토리 이용률 데이터는 아카이브가 FTP 서버로 전송될 때 통합 어플라이언스에서 영구 제거되지 않습니다.

FTP 서버로 아카이브 전송 옵션을 선택하면 매일 자정에 이용률 데이터의 스냅샷을 전송합니다. 다음 프로시저는 옵션 선택 방법을 설명합니다.

## 프로시저

1. 탐색 분할창에서 로그 > 작업 로그를 선택하십시오. 결과 페이지가 모든 오케스트레이션 모니터링 로그를 표시합니다.
2. 설정을 클릭하십시오. 작업 로그 설정 대화 상자가 표시됩니다.
3. 아카이브를 클릭하십시오.
4. FTP 서버로 아카이브 이용률 데이터를 전송(자정에)을 선택하십시오.
5. FTP 설정을 지정하십시오. FTP 설정에 대한 자세한 정보는 표 1 아래의 다음 표를 참조하십시오.
6. 저장을 클릭하십시오.

## FTP 설정

오케스트레이션 모니터링 로그 및 이용률 데이터를 아카이브하기 위한 FTP 설정 지정.

Table 1. 작업 로그 FTP 설정

매개변수	설명
호스트	내보낸 로그 파일이 아카이브되는 FTP 서버의 이름을 지정합니다.
포트	내보낸 로그 파일이 아카이브되는 FTP 서버의 포트 번호를 지정합니다.
사용자 이름	통합 어플라이언스가 내보낸 로그 파일이 아카이브되는 FTP 서버에 로그인하는 데 사용하는 사용자 ID를 지정합니다.
사용자 비밀번호	통합 어플라이언스가 내보낸 로그 파일이 아카이브되는 FTP 서버에 로그인하는 데 사용하는 비밀번호를 지정합니다.
비밀번호 텍스트 숨기기	이 옵션을 선택 취소하면 사용자가 입력한 비밀번호가 일반 텍스트로 표시되고 더 이상 암호화되지 않습니다.
디렉토리	통합 어플라이언스가 로그 파일을 내보내는 FTP 디렉토리를 지정합니다.

## 오케스트레이션 모니터링 로그 영구 제거

오케스트레이션 모니터링 로그를 영구 제거 및 아카이브할 수 있습니다.

### 이 태스크 정보

통합 어플라이언스가 오케스트레이션 모니터링 데이터를 영구 제거할 때, 대시보드가 업데이트된 작업 계수를 표시하는 데 몇 분이 걸릴 수 있습니다.

기본적으로, 통합 어플라이언스는 다음 조건 중 하나가 통합 어플라이언스에서 발생할 때 30일이 지난 오케스트레이션 모니터링 로그를 영구 제거합니다.

- 사용 가능한 디스크 공간의 양이 50% 아래로 떨어집니다.
- 마지막 영구 제거 이후 하루가 지났습니다.
- 5,000개가 넘는 오케스트레이션 작업이 완료되었습니다.
- 1,000개가 넘는 오케스트레이션 작업이 오류를 포함했습니다.

WMC를 사용하면 통합 어플라이언스에서 다음을 판별하는 작업 로그 영구 제거 매개변수를 구성할 수 있습니다.

- 트리거 조건 - 오케스트레이션 모니터링 데이터를 영구 제거하기 위해 통합 어플라이언스를 트리거하는 조건입니다.

- 빈도 - 오케스트레이션 모니터링 데이터를 영구 제거하는 빈도입니다.
- 작업 범위 - 영구 제거할 오케스트레이션 모니터링 데이터의 유형입니다.

## 프로시저

1. 탐색 분할창에서 로그 > 작업 로그를 선택하십시오. 결과 페이지가 표시됩니다.
2. 설정을 클릭하십시오. 작업 로그 설정 대화 상자가 표시됩니다. 기본적으로 영구 제거 페이지가 표시됩니다.
3. 다음 섹션에서 설명하는 대로 매개변수를 지정하십시오.
4. 저장을 클릭하십시오.

상위 주제: [로그에 대한 작업](#)

## 작업 로그 영구 제거 매개변수

### 트리거 조건

통합 어플라이언스의 디스크 여유 공간의 크기, 마지막으로 오케스트레이션 모니터링 로그가 영구 제거된 이후의 경과 시간, 완료된 작업 수, 오류를 포함하는 작업의 수가 모두 오케스트레이션 모니터링 로그의 영구 제거 또는 아카이브를 시작할 수 있는 모든 트리거입니다. 통합 어플라이언스는 트리거 조건 중 하나가 발생할 때 "OR" 로직을 사용하고 오케스트레이션 모니터링 데이터를 영구 제거합니다.

매개변수	설명	기본값
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매개변수	설명	기본값
사용 가능한 디스크 공간	<p>이 트리거는 디스크 여유 공간의 백분율이 지정된 값보다 작을 때 실행합니다. 이 트리거가 실행할 때 사용자가 작업 범위 매개변수에서 지정하는 대로 통합 어플라이언스가 오케스트레이션 모니터링 데이터를 영구 제거합니다.</p> <p>디스크 여유 공간의 백분율이 아직 사용자가 지정한 백분율에 부족한 경우, 통합 어플라이언스는 해당 값에 도달할 때까지 나머지 오케스트레이션 모니터링 데이터의 50%를 영구 제거합니다.</p> <p>예를 들어, 영구 제거 매개변수에 대해 다음 값을 지정합니다.</p> <ul style="list-style-type: none"> <li>• 사용 가능한 디스크 공간 = 40%</li> <li>• 작업 상태 = 완료됨</li> <li>• 작업 나이 = 30일</li> </ul> <p>통합 어플라이언스 디스크의 10%만이 사용 가능한 경우, 사용 가능한 디스크 공간 트리거가 실행되고 통합 어플라이언스는 30일이 지난 모든 완료된 작업을 영구 제거합니다. 그러나, 이 데이터를 영구 제거해도 디스크 공간의 10%만 사용 가능하게 됩니다. 디스크 여유 공간의 최소량이 아직 만족되지 않았으므로, 통합 어플라이언스는 나머지 오케스트레이션 모니터링 데이터의 추가 50%를 영구 제거합니다. 통합 어플라이언스는 최소 사용 가능 디스크 공간이 지정된 값보다 크거나 같을 때까지 계속해서 50%씩 나머지 오케스트레이션 모니터링 데이터를 영구 제거합니다.</p> <p>1 - 100퍼센트 사이의 값을 지정할 수 있으며, 40 - 75퍼센트 범위를 벗어난 값은 통합 어플라이언스가 50%의 기본값을 사용하게 만듭니다.</p> <p>Note: 이것은 필수 매개변수입니다.</p>	50%
스케줄	<p>이 트리거는 마지막 영구 제거 이후의 기간이 지정된 일, 시간, 분 값보다 더 클 때 실행합니다.</p> <p>고정 옵션을 선택하여 영구 제거를 더 정확하게 스케줄할 수 있습니다. 고정 스케줄 옵션을 선택할 때, 사용자가 지정하는 스케줄이 마지막 영구 제거 이후에 지정된 일, 시간, 분 값을 대체합니다.</p> <p>영구 제거를 스케줄하려면 다음을 수행하십시오.</p> <ol style="list-style-type: none"> <li>1. 고정 옵션을 선택하십시오.</li> <li>2. 일, 주 또는 월 수를 지정하십시오.</li> <li>3. 목록에서 일, 주 또는 월을 선택하여 값을 규정하십시오.</li> <li>4. 시작 날짜를 지정하십시오.</li> </ol>	1일
완료된 작업 수	<p>이 트리거는 완료된 작업의 수가 지정된 값보다 더 클 때 실행합니다. 이 매개변수는 양의 정수여야 합니다.</p> <p>Note: 통합 어플라이언스가 작업을 영구 제거한 후, 작업 개수가 더 이상 WMC에서 보이지 않습니다.</p>	5,000 작업

매개변수	설명	기본값
오류가 있는 작업 개수	이 트리거는 오류를 포함하는 작업의 수가 지정된 값보다 더 클 때 실행합니다. 오류가 있는 작업 수에는 알 수 없음, 취소됨, 종료됨 또는 오류가 있음 상태에 있는 모든 오케스트레이션 작업이 포함됩니다. 이 매개변수는 양의 정수여야 합니다.  Note: 통합 어플라이언스가 작업을 영구 제거한 후, 작업 개수가 더 이상 WMC에서 보이지 않습니다.	1,000 작업

## 빈도

빈도는 통합 어플라이언스가 조치 가능한 조건에 대해 정의된 트리거 세트를 확인하는 간격을 판별합니다. 시간, 분 및 초의 증분으로 빈도 간격을 지정할 수 있습니다.

기본적으로, 이 매개변수는 10초로 설정됩니다.

## 작업 범위

트리거 조건 및 빈도 지정과 함께, 영구 제거하려는 오케스트레이션 작업 데이터의 유형도 지정해야 합니다. 통합 어플라이언스는 사용자가 작업 상태 및 작업 나이 매개변수에 대해 지정하는 값 또는 작업 상태 및 가장 최근보다 오래된 작업 매개변수에 대해 지정하는 값을 사용하여 통합 어플라이언스가 데이터를 영구 제거하는 시기를 판별합니다.

매개변수	설명	기본값
작업 상태	이 매개변수는 통합 어플라이언스가 영구 제거하는 오케스트레이션 작업의 유형을 지정합니다. 기본적으로 이 매개변수는 ANY로 설정되는데, 완료된 작업과 오류를 포함하는 작업을 영구 제거합니다. COMPLETED를 지정하여 완료된 작업만 영구 제거할 것을 선택할 수 있습니다.	Any
작업 나이	이 매개변수는 영구 제거할 오케스트레이션 작업의 최소 나이를 지정합니다. 통합 어플라이언스는 사용자가 지정하는 시간보다 오래된 모든 것을 영구 제거합니다. 월, 일, 시간, 분 단위로 오케스트레이션 작업의 나이를 지정할 수 있습니다.	7일
가장 최근보다 오래된 작업	이 매개변수는 통합 어플라이언스가 데이터를 영구 제거하기 전에 오케스트레이션 작업이 더 오래 되어야 하는 가장 최근 작업의 수를 지정합니다.	1,000 작업

## 시스템 로그 설정 지정

시스템 로그에 나타나는 세부사항의 레벨을 지정할 수 있습니다. 사용자가 지정하는 로그 레벨이 알림 정책에 대한 경보에 영향을 줍니다. 경보는 사용자가 지정하는 로그 레벨을 만족하거나 초과하는 이벤트에 대해서만 전송됩니다.

## 이 태스크 정보

시스템 로그 레벨이 다음 표에 표시됩니다. 설명 열은 각 레벨의 설명을 제공하며 Cast Iron 관리 API 로그 레벨에 대응하는 방법을 설명합니다.

심각도	설명
INFO	정보 메시지. (Cast Iron 관리 API "INFO" 로그 레벨에 대응합니다.)
WARNING	경고 메시지. (Cast Iron 관리 API "WARNING" 로그 레벨에 대응합니다.)
ERROR	사용자 주의가 필요할 수 있는 심각한 오류입니다. (Cast Iron 관리 API "SEVERE" 로그 레벨에 대응합니다.)
CRITICAL	사용자 또는 관리자 주의가 필요한 치명적 오류입니다. (Cast Iron 관리 API "FATAL" 로그 레벨에 대응합니다.)
FINEST	FINEST 이상의 레벨에 있는 모든 로그를 검색합니다. (Cast Iron 관리 API "ALL" 로그 레벨에 대응합니다.)

참고: 특정 경우에는 WMC에서 설정된 로그 레벨이 Cast Iron 관리 API의 설정을 대체합니다. 예를 들어, 컴포넌트에 대한 WMC 로깅 레벨이 FINEST로 설정된 경우 Cast Iron 관리 API에 의해 검색되는 로그도 FINEST 레벨로 설정됩니다. 또한, WMC 시스템 로깅 레벨이 INFO로 설정되는 경우 Cast Iron 관리 API에 의해 검색되는 로그도 INFO로 설정됩니다.

참고: 이벤트에 대한 알림을 수신하지 않는 경우, 알림을 트리거하는 항목을 생성하도록 충분히 높게 시스템 로그 레벨을 설정하지 않았을 수 있습니다.

## 프로시저

1. 탐색 분할창에서 로그 > 시스템 로그를 선택하십시오. 시스템 로그 페이지가 표시됩니다.
2. 설정을 클릭하십시오. 시스템 로그 설정 대화 상자가 표시됩니다.
3. 목록에서 각 시스템에 대한 로그 레벨을 선택하십시오.
4. 저장을 클릭하십시오.

## 결과

확인 메시지가 표시됩니다. 시스템 로그가 특정 시스템에 대해 사용자가 지정한 레벨 또는 그 이상에서 발생하는 모든 이벤트를 로깅합니다. 예를 들어, 배치에 대해 오류 레벨을 선택한 경우 배치 시스템에서 오류 또는 위험 레벨인 모든 이벤트가 로그됩니다.

상위 주제: [로그에 대한 작업](#)

## 시스템 로그 보기

관리 콘솔에서 시스템 로그를 보고 시스템 로그 필터를 사용하여 시스템 로그 항목을 정렬할 수 있습니다.

## 이 태스크 정보

업그레이드할 때 관리 콘솔은 시스템 로그를 지속하지 않습니다. 시스템 로그 정보를 보유하려면 업그레이드하기 전에 시스템 로그를 내보내십시오.

참고: 관리 콘솔은 최대 99,999개의 시스템 로그 항목을 표시합니다. 시스템 로그 항목의 수가 99,999를 초과할 때, 가장 오래된 로그 항목이 시스템 로그에서 삭제됩니다.



1. 탐색 분할창에서 로그 > 시스템 로그를 선택하십시오. 시스템 로그 페이지가 표시됩니다.
2. 시스템 로그 페이지의 맨 위에 있는 목록에서 필터 값을 선택하십시오. 이벤트에 대한 심각도의 레벨, 로그 이벤트를 생성한 환경 시스템, 날짜 및 해결 상태에 따라서 로그 항목을 필터링할 수 있습니다. 필터는 AND 로직을 사용합니다.

상위 주제: [로그에 대한 작업](#)

## 시스템 로그 콘텐츠

시스템 로그는 다음 정보를 제공합니다.

시스템 로그 콘텐츠	설명
레벨	로그 이벤트의 심각도 레벨을 식별합니다. <ul style="list-style-type: none"><li>• 위험</li><li>• 오류</li><li>• 경고</li><li>• 정보</li></ul>
시스템	로그 이벤트가 발생한 시스템을 식별합니다. <ul style="list-style-type: none"><li>• 하드웨어</li><li>• 자원</li><li>• 네트워크</li><li>• 보안</li><li>• 오케스트레이션</li><li>• 배치</li></ul>
메시지	로그 이벤트에 관한 세부사항을 제공하는 텍스트 메시지입니다.
작업	사용 가능할 때 오케스트레이션 시스템에서 발생하는 로그 이벤트에 대한 작업 ID 정보를 표시합니다.
시기	로그 이벤트가 발생한 시간을 기록합니다.
해결 시간	로그 이벤트를 해결했을 때의 시간소인을 제공합니다.
해결자	로그 이벤트를 해결한 사용자를 식별합니다.
해결됨	로그 이벤트를 해결했음을 수신확인하려면 이 선택란을 선택하십시오. 사용자가 로그 이벤트를 해결할 때, 시간소인이 문제가 해결된 날짜 및 시간을 문서화합니다. 로그 이벤트를 해결한 사용자에 관한 정보는 해결자 옆에서 추적됩니다. 모두 해결을 클릭하여 모든 시스템 로그 문제를 해결할 수 있습니다. 해결되지 않은 모든 로그 이벤트 옆에 있는 선택란을 선택 취소하십시오. 그러면 해결 시간 및 해결자 값이 지워집니다.

## 시스템 로그 및 작업 로그의 열 사용자 정의

시스템 로그 및 작업 로그에 표시되는 열을 각각 사용자 정의할 수 있습니다.

## 이 태스크 정보

열 표시 설정을 편집하여 시스템 로그 및 작업 로그 페이지에 표시되는 열을 사용자 정의할 수 있습니다. 로그 페이지 열을 사용자 정의하려면 다음 단계를 완료하십시오.

## 프로시저

1. 탐색 분할창에서 로그 > 시스템 로그 또는 작업 로그를 선택하십시오. 시스템 로그 페이지 또는 작업 로그 페이지가 표시됩니다.
2. 열 편집을 클릭하십시오. 열 표시 창이 표시됩니다.
3. 시스템 로그나 작업 로그 페이지에 표시되어야 하는 열을 선택하십시오. 기본적으로, 열 표시 창에서 모든 열이 선택됩니다.
4. 저장을 클릭하십시오. 사용자가 선택하는 열만 시스템 로그 또는 작업 로그 페이지에 표시됩니다.

상위 주제: [로그에 대한 작업](#)

## 어플라이언스 관리

이제 웹 관리 콘솔에서 다른 어플라이언스를 관리할 수 있습니다. 이 기능은 복수 어플라이언스를 가질 때 유용하며, 단일 콘솔에서 이들 어플라이언스를 관리할 수 있습니다.

한 어플라이언스가 마스터 어플라이언스로 지정되는데, 이것은 다른 어플라이언스를 관리하는 데 사용됩니다.

다음 기능이 어플라이언스 관리의 일부로 사용 가능합니다.

- 어플라이언스는 마스터 어플라이언스에 등록 및 등록 해제될 수 있습니다.
- 마스터 어플라이언스에서 각 어플라이언스의 자원 이용률 세부사항을 볼 수 있습니다. 자원 이용률 그래프에 대한 자세한 정보는 [자원 이용률 그래프 정보](#)의 내용을 참조하십시오.
- 마스터 어플라이언스에서 각 어플라이언스의 게시되는 프로젝트 및 각 프로젝트/오케스트레이션의 상태를 볼 수 있습니다.
- 마스터 어플라이언스에서 각 등록된 어플라이언스의 업그레이드를 수행할 수 있습니다.
- 물리적 및 가상 어플라이언스를 둘 다 지원합니다.
- 관리 및 모니터링을 위해 Cast Iron® 버전 7.0 및 이전 버전(6.0.0.x, 6.1.x.x, 6.3.x.x, 6.4.x.x)을 지원합니다. Cast Iron의 이전 버전은 이 기능 사용을 위한 필수 패치 레벨에 있어야 합니다.
- 마스터 어플라이언스의 사용자는 이 기능을 사용할 관리자 권한을 가져야 합니다.
- 이 기능은 또한 어플라이언스가 고가용성에 대해 구성될 때도 사용할 수 있습니다.
- [어플라이언스 등록, 편집 및 등록 해제](#)
- [Cast Iron 어플라이언스 업그레이드](#)  
이 기능은 업그레이드 파일 `vencrypt2` 및 `scrypt2` 파일을 사용하여 Cast Iron 어플라이언스를 업그레이드하는 데 사용됩니다. 업그레이드 파일은 어플라이언스의 버전(수정팩/패치/주 릴리스)에 따라서 Cast Iron 소프트웨어의 일부로 또는 Fix Central에서 얻습니다.
- [명령 실행](#)
- [프로젝트 구성 관리](#)  
복수 어플라이언스 관리 기능을 사용하면 등록된 원격 어플라이언스에 존재하는 프로젝트의 라이프사이클(프로젝트 시작, 중지, 삭제 및 복제)을 관리할 수 있습니다. 단일 마스터 어플라이언스를 통해 서로 다른 어플라이언스에서 실행 중인 프로젝트의 라이프사이클을 수정할 수 있습니다. 라이프사이클에는 중지, 시작, 복제, 재개, 일시정지 및 배치 취소가 포함됩니다. 등록된 어플라이언스의 목록이 어플라이언스를 선택하고 선택된 어플라이언스에 있는 프로젝트의 라이프사이클을 수정할 수 있는 어플라이언스 필터에 표시됩니다.

# 어플라이언스 등록, 편집 및 등록 해제

## 이 태스크 정보

새 어플라이언스를 등록하려면 다음 단계를 완료하십시오.

## 프로시저

1. 웹 관리 콘솔에 관리자로서 로그인하십시오.
2. 관리 > 어플라이언스를 선택하십시오.
3. 등록을 클릭하여 새 어플라이언스를 등록하십시오. 새 어플라이언스 등록 창이 표시됩니다.
4. 새 어플라이언스 등록 창에서 다음 세부사항을 완료하십시오.
  - a. 표시 이름 - 원격 어플라이언스를 식별하는 데 사용될 수 있는 표시 이름을 지정하십시오.
  - b. 호스트 이름 - 등록하려는 원격 어플라이언스의 호스트 이름이나 IP 주소를 지정하십시오.
  - c. 사용자 이름 - 원격 어플라이언스와 통신할 관리자 권한을 갖는 사용자 이름을 지정하십시오.
  - d. 비밀번호 - 사용자 이름에 대한 비밀번호를 지정하십시오.
  - e. 옵션: 설명 - 이 어플라이언스의 간략한 설명을 지정하십시오.
  - f. LDAP - 원격 어플라이언스가 LDAP에 대해 구성되는 경우 이 옵션을 선택하십시오. 또한 사용자 이름 및 비밀번호 필드에서 어플라이언스에 연결하기 위해 사용되는 LDAP 신임 정보를 제공하십시오.
  - g. 사용 - 관리 및 모니터링을 위해 어플라이언스를 사용으로 설정하려면 이 옵션을 선택하십시오. 사용 안함으로 설정되면 데이터가 이 어플라이언스에 대해 표시되지 않습니다.
5. 저장을 클릭하십시오.

### 참고:

- 이미 마스터에 등록된 어플라이언스는 마스터 어플라이언스가 될 수 없습니다.
- 이미 마스터인 어플라이언스를 또 다른 마스터 어플라이언스에 등록할 수 없습니다.
- 복수 마스터 어플라이언스를 갖는 어플라이언스를 등록할 수 있습니다.
- 마스터 어플라이언스를 관리 및 모니터링을 위해 자기 자신에게 등록할 수 있습니다.

### 참고:

- 이름이 `masteradmin4ma`인 사용자가 마스터 어플라이언스에서 작성되어 현재 어플라이언스가 마스터 어플라이언스임을 표시합니다.
- 이름이 `slaveadmin4ma`인 사용자가 마스터 어플라이언스에 등록된 어플라이언스에 작성됩니다.
- 이들 사용자는 모두 어플라이언스를 마스터 어플라이언스에서 등록 해제하려는 경우가 아니면 삭제해서는 안됩니다.

## 결과

확인 메시지가 표시됩니다. 새 어플라이언스가 등록됩니다. 등록이 성공할 때 어플라이언스의 버전과 유형(물리적/가상)이 표시됩니다.

상위 주제: [어플라이언스 관리](#)

## 등록된 어플라이언스 세부사항 편집

### 이 태스크 정보

등록된 어플라이언스 중 하나의 표시 이름을 클릭하면 어플라이언스 세부사항 편집 대화 상자에서 어플라이언스 세부사항을 편집할 수 있습니다. 다음 필드를 편집할 수 있습니다.

- 표시 이름

- 사용자 이름
- 비밀번호
- 설명
- LDAP
- 사용

## 어플라이언스 등록 해제

---

### 프로시저

1. 등록된 어플라이언스의 목록에서 등록 해제될 어플라이언스를 선택하십시오.
2. 등록 해제 단추를 클릭하십시오. 어플라이언스 삭제 확인 메시지가 표시됩니다.
3. 어플라이언스를 등록 해제하려면 예를 클릭하십시오.

## Cast Iron 어플라이언스 업그레이드

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이 기능은 업그레이드 파일 `vcrypt2` 및 `scrypt2` 파일을 사용하여 Cast Iron® 어플라이언스를 업그레이드하는 데 사용됩니다. 업그레이드 파일은 어플라이언스의 버전(수정팩/패치/주 릴리스)에 따라서 Cast Iron 소프트웨어의 일부로 또는 Fix Central에서 얻습니다.

### 이 태스크 정보

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원격 어플라이언스를 업그레이드하려면 다음 단계를 완료하십시오.

### 프로시저

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1. `vcrypt2` 및/또는 `scrypt2` 파일을 웹 관리 콘솔에서 어플라이언스에 액세스할 수 있는 워크스테이션에 복사하십시오.
2. WMC에서 통합 어플라이언스에 로그인하고 관리 > 어플라이언스로 이동하십시오.
3. 등록된 어플라이언스의 목록에서 업그레이드하려는 어플라이언스를 선택하십시오.
4. 운영 체제 업그레이드 링크를 클릭하십시오. 어플라이언스 운영 체제 업그레이드 마법사가 표시됩니다.
5. 가상 어플라이언스를 업그레이드하려면 가상 어플라이언스 업그레이드 파일 필드에서 `.vcrypt2` 파일을 찾아보십시오.
6. 물리적 어플라이언스를 업그레이드하려면 물리적 어플라이언스 업그레이드 파일 필드에서 `.scrypt2` 파일을 찾아보십시오.
7. 업그레이드를 클릭하십시오. 모든 선택된 어플라이언스가 하나씩 순차적으로 업그레이드됩니다.

### 결과

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모든 어플라이언스 업그레이드가 완료된 후 업그레이드 결과가 표시됩니다. 데이터가 업데이트된 후 어플라이언스 버전도 등록된 어플라이언스 목록에서 업데이트됩니다.

참고:

- 어플라이언스의 업그레이드/다시 부팅 같은 변경을 수행하기 전에 런타임의 모든 프로젝트를 중지하십시오. 어플라이언스가 다시 시작된 후 프로젝트를 하나씩 시작하십시오.
- 마스터 어플라이언스가 업그레이드 목록의 일부인 경우, 다른 어플라이언스의 업그레이드가 완료된 후에만 업그레이드됩니다.
- 물리적 어플라이언스 및 가상 어플라이언스 모두에 대한 파일 `scrypt2` 및 `vcrypt2`를 찾아볼 때, 업그레이드는 테이블의 어플라이언스에 대해 사용 가능한 유형 정보(물리적 또는 가상)를 바탕으로 합니다. 유형 정보가 사용 불가능

한 경우(임시 수정사항이 없는 이전 버전), 이들 어플라이언스는 업그레이드에서 제외됩니다.

- 단 하나의 파일만 찾을 때, 해당 파일이 유형 정보를 갖지 않는(-로 표시됨) 어플라이언스를 포함하여 모든 선택된 어플라이언스를 업그레이드하기 위한 입력으로 사용됩니다.

상위 주제: [어플라이언스 관리](#)

## 명령 인터페이스에 대한 정보

Cast Iron® 명령 인터페이스(CLI)를 통해 관리자는 통합 어플라이언스를 관리하고 해당 구성 정보를 유지보수 및 업데이트 할 수 있습니다.

CLI는 통합 어플라이언스에 미리 설치되며, 이 문서에서 설명하는 명령에 응답할 수 있습니다.

참고: CLI는 대소문자를 구분합니다. 일반적으로 소문자를 사용하여 명령과 키워드를 입력해야 합니다.

관리자로 로그인한 사용자만 CLI를 사용할 수 있습니다. 둘 이상의 관리자가 동시에 통합 어플라이언스에 로그인할 수 없습니다.

### CLI에 로그인

SSH(Secure Shell) 세션, 터미널 에뮬레이션 또는 Telnet을 사용하여 통합 어플라이언스에서 CLI에 로그인할 수 있습니다. 기본적으로, 보안 관리는 통합 어플라이언스에서 사용 가능하며, 통합 어플라이언스에 액세스하려면 보안 연결을 사용해야 합니다. 보안 연결은 통합 어플라이언스 설치에서 제공한 기본 호스트 키를 사용합니다.

SSH 클라이언트 또는 Telnet 클라이언트를 사용하여 CLI에 로그인하는 경우 연속해서 로그인에 5회 실패하면(사용자 또는 시간에 상관없이) 잠금이 트리거됩니다. 잠금은 사용자에 상관없이 분당 1회의 로그인 시도로 제한됩니다. 로그인에 성공하면 로그인 실패 횟수가 재설정되고 잠금이 종료됩니다.

### CLI에서 로그아웃

명령 프롬프트에서 `exit` 명령을 사용하여 CLI에서 로그아웃합니다. 그러면 터미널 에뮬레이션 또는 Telnet 세션 연결도 닫힙니다.

### CLI 도움말 보기

CLI에서 `help` 또는 `?`를 입력하여 명령 카테고리 목록을 볼 수 있습니다. 특정 카테고리에 있는 명령에 대한 구문 도움말을 보려면 `Category help`를 입력합니다. 예를 들어, `net help` 또는 `net ?`는 각 네트워크 명령에 대한 구문 정보를 나열합니다.

Tab 완성으로 CLI 구문을 안내하기도 합니다. CLI에서 부분 명령을 입력하고 Tab 키를 누르면 됩니다. Tab 키를 누르면 명령이 완성되거나 명령 구문을 완성할 옵션 목록을 제공합니다.

참고: Tab 완성은 CLI 구문에서 공백을 인식합니다. 예를 들어, CLI에 `system show`를 입력하고 Tab 키를 누르면 결과가 나타나지 않습니다. `show` 뒤에 공백을 추가하고 Tab 키를 눌러야 올바른 명령 매개변수가 표시됩니다.

### 명령 규칙

다음 규칙을 사용하여 명령 구문 규칙을 설명합니다.

표 1.

규칙	설명
----	----

규칙	설명
keyword <value>	대부분의 명령 매개변수는 키워드 및 값을 결합합니다. 일부 매개변수에는 값이 필요하지 않을 수도 있습니다.
<value>	매개변수의 값은 꺾쇠괄호로 묶습니다. 대부분의 경우 표시된 텍스트는 사용자가 제공한 정보 유형(예: <hostname>)을 나타냅니다. 값은 명시적일 수 있습니다(예: <yes>).
[x]	선택적 매개변수는 대괄호로 묶습니다.
{x y z}	필수 매개변수 그룹은 중괄호로 묶습니다.
x / y / z	선택사항은 막대로 분리되며 하나만 선택합니다.
x...	두 번 이상 나타날 수 있는 매개변수는 말 줄임표가 뒤에 나옵니다.

- [SSH\(Secure Shell\) 세션 연결을 통해 CLI에 로그인](#)  
기본적으로, 보안 관리는 통합 어플라이언스에서 사용 가능하며, 통합 어플라이언스에 액세스하려면 보안 연결을 사용해야 합니다. 보안 연결은 통합 어플라이언스 설치에서 제공한 기본 호스트 키를 사용합니다. SSH(Secure Shell) 세션을 사용하여 통합 어플라이언스에서 CLI에 로그인할 수 있습니다.
- [직렬 연결을 통해 CLI에 로그인](#)  
직렬 연결을 사용하면 터미널 에뮬레이션 소프트웨어를 실행하는 PC 또는 ASCII 터미널에서 통합 어플라이언스에 대해 명령을 실행하고 모니터할 수 있습니다. 직렬 연결을 설정하려면 다음을 수행하십시오.
- [Telnet 연결을 통해 CLI에 로그인](#)  
통합 어플라이언스에서 보안 관리 액세스를 사용할 수 없으면 Telnet 세션을 통해 네트워크에서 통합 어플라이언스에 연결할 수 있습니다.
- [명령 인터페이스 모드](#)  
통합 어플라이언스 모드는 사용할 수 있는 명령 인터페이스(CLI) 명령의 유형을 판별합니다.
- [명령 인터페이스 명령](#)  
명령 인터페이스(CLI)에서 사용할 수 있는 다양한 명령 카테고리 목록이 있으며, 다음에서 각 명령 카테고리에 대한 용도를 설명합니다.

## SSH(Secure Shell) 세션 연결을 통해 CLI에 로그인

기본적으로, 보안 관리는 통합 어플라이언스에서 사용 가능하며, 통합 어플라이언스에 액세스하려면 보안 연결을 사용해야 합니다. 보안 연결은 통합 어플라이언스 설치에서 제공한 기본 호스트 키를 사용합니다. SSH(Secure Shell) 세션을 사용하여 통합 어플라이언스에서 CLI에 로그인할 수 있습니다.

### 프로시저

1. Windows에서 SSH 연결을 수행하는 애플리케이션(예: PuTTY)을 시작하십시오.
2. *appliance-host-name*을 입력하십시오.
3. 필요한 경우 연결 프로토콜로 SSH를 선택하거나 애플리케이션에서 제공되는 다른 연결 매개변수를 설정하십시오.
4. 연결을 Initiate®하십시오. 첫 번째 액세스 시 로그인 프롬프트가 표시됩니다.
5. 관리 권한이 있는 사용자 이름 및 비밀번호로 통합 어플라이언스에 로그인하십시오. 기본 사용자 이름 및 비밀번호는 다음과 같습니다.
  - 로그인: admin
  - 비밀번호: !n0r1t5@C

### 결과

로그인하면 통합 어플라이언스의 호스트 이름으로 프롬프트가 변경됩니다.

호스트 이름을 선택하지 않으면 프롬프트에서는 통합 어플라이언스의 IP 주소가 기본값으로 지정됩니다.

상위 주제: [명령 인터페이스에 대한 정보](#)

## 직렬 연결을 통해 CLI에 로그인

직렬 연결을 사용하면 터미널 에뮬레이션 소프트웨어를 실행하는 PC 또는 ASCII 터미널에서 통합 어플라이언스에 대해 명령을 실행하고 모니터링할 수 있습니다. 직렬 연결을 설정하려면 다음을 수행하십시오.

### 프로시저

1. 직렬 케이블을 사용하여 콘솔 또는 랩탑 컴퓨터를 통합 어플라이언스에 연결하십시오. 통합 어플라이언스에서 직렬 포트에 대한 터미널 에뮬레이션 소프트웨어를 실행하는 PC 또는 ASCII 터미널 사이에 직렬 연결이 존재해야 합니다.
2. 포함된 직렬 케이블을 사용하여 통합 어플라이언스에서 직렬 커넥터에 터미널 또는 PC를 연결하십시오. 터미널 또는 PC에 직렬 포트가 없고 USB 포트만 있는 경우 USB 및 직렬 간 변환기 케이블(포함되지 않음)을 사용하십시오.
3. 플로우 제어 조작이 없는 표준 9600 8N1에 대해 터미널 또는 PC를 구성하십시오. 8N1은 비동기 모드에서의 직렬 구성에 대한 표기이며, 여덟 개의 데이터 비트(8), 패리티 비트 없음(N), 하나의 정지 비트(1)를 나타냅니다. 터미널 또는 PC에 권장되는 터미널 에뮬레이션은 VT100입니다.

### 결과

통합 어플라이언스에 로그인하면 통합 어플라이언스의 호스트 이름으로 프롬프트가 변경됩니다.

호스트 이름을 선택하지 않으면 프롬프트에서는 통합 어플라이언스의 IP 주소가 기본값으로 지정됩니다.

상위 주제: [명령 인터페이스에 대한 정보](#)

## Telnet 연결을 통해 CLI에 로그인

통합 어플라이언스에서 보안 관리 액세스를 사용할 수 없으면 Telnet 세션을 통해 네트워크에서 통합 어플라이언스에 연결할 수 있습니다.

### 이 태스크 정보

참고: 기본적으로 통합 어플라이언스에서 보안 관리 액세스는 사용 가능하므로, Telnet 연결을 사용하여 통합 어플라이언스에 연결할 수 없습니다. 보안 관리 액세스의 사용 및 사용 해제에 대한 자세한 정보는 mgmt secure 명령을 참조하십시오.

### 프로시저

1. Windows에서 시작 > 실행을 선택하십시오.
2. `telnet appliance-host-name`을 입력하십시오. 첫 번째 액세스 시 로그인 프롬프트가 표시됩니다.
3. 관리 권한이 있는 사용자 이름 및 비밀번호로 통합 어플라이언스에 로그인하십시오. 기본 사용자 이름 및 비밀번호는 다음과 같습니다.
  - 로그인: admin
  - 비밀번호: !n0r1t5@C

### 결과

로그인하면 통합 어플라이언스의 호스트 이름으로 프롬프트가 변경됩니다.

호스트 이름을 선택하지 않으면 프롬프트에서는 통합 어플라이언스의 IP 주소가 기본값으로 지정됩니다.

상위 주제: [명령 인터페이스에 대한 정보](#)

## 명령 인터페이스 모드

---

통합 어플라이언스 모드는 사용할 수 있는 명령 인터페이스(CLI) 명령의 유형을 판별합니다.

통합 어플라이언스는 다음 모드 중 하나일 수 있습니다.

### 활성

활성 모드에서 데이터를 처리하는 고가용성(HA) 쌍의 통합 어플라이언스입니다. 이 모드에서는 모든 CLI 명령을 실행할 수 있습니다. 활성 통합 어플라이언스는 다음 상태 중 하나일 수 있습니다.

- 활성 1 - 활성 통합 어플라이언스가 해당 HA 피어와 통신하지 않습니다. 피어 통합 어플라이언스가 다시 부팅되거나 R1 및 R2 케이블 연결이 끊어진 경우 이 상태가 나타날 수 있습니다.
- 활성 2 - 활성 통합 어플라이언스가 해당 HA 피어와 통신하고 있습니다.

### 유휴

사용자 조치를 필요로 하는 오류가 발생하면 통합 어플라이언스가 유휴 모드로 설정됩니다. 이 상태는 활성이 아닌 통합 어플라이언스가 활성 또는 대기 모드로 설정될 수 없음을 나타냅니다. HA 쌍에 포함된 통합 어플라이언스만 유휴 모드로 설정됩니다. 이 모드에서는 `diagnet`, `ha`, `netspect`, `system` 명령을 실행할 수 있습니다.

### 독립형

모든 메시지를 처리하는 단일 통합 어플라이언스입니다. 독립형 통합 어플라이언스는 HA 쌍에 포함될 수 없습니다. 이 모드에서는 HA 쌍과 연관된 명령을 제외한 모든 명령을 실행할 수 있습니다.

### 대기

HA 쌍에서 대기 모드로 실행되는 활성 통합 어플라이언스의 처리를 모니터하는 통합 어플라이언스입니다. 대기 모드에서 실행 중인 통합 어플라이언스는 활성 모드에서 실행 중인 통합 어플라이언스와 동기화 상태를 유지하며, 활성 통합 어플라이언스가 중단된 경우 처리를 인계할 준비를 합니다. 이 모드에서는 `ha` 및 `system` 명령을 실행할 수 있습니다.

### 알 수 없음

HA 쌍에서 활성 통합 어플라이언스가 대기 통합 어플라이언스의 상태를 알 수 없는 경우입니다.

## 일반적인 HA 쌍 모드 조합

---

HA 쌍에 대한 작업을 수행하는 경우 다음 모드 조합이 일반적입니다.

- `ACTIVE_2` 및 `STANDBY` - 활성 시스템이 해당 피어와 통신하거나 그 반대의 상황입니다. 대기 피어가 활성 피어에서 모든 데이터를 동기화한 후에만 쌍이 고가용성입니다.
- `ACTIVE_2` 및 `IDLE` - 사용자가 `ha disconnect` 명령을 실행했을 수 있기 때문에 활성 시스템이 피어 시스템과 연결이 끊어졌습니다. `ha connect` 명령을 실행하여 HA 쌍을 복원합니다.
- `ACTIVE_1` 및 `UNKNOWN` - 피어가 다시 부팅되거나 전원이 꺼졌거나 케이블 연결이 끊어졌을 수 있기 때문에 활성 시스템이 해당 피어와 통신하지 않습니다.

상위 주제: [명령 인터페이스에 대한 정보](#)

## 명령 인터페이스 명령

---



명령 인터페이스(CLI)에서 사용 가능한 다양한 명령 카테고리 목록이 있으며, 다음에서 각 명령 카테고리에 대한 용도를 설명합니다.

표 1.

명령 카테고리	설명
권한 부여 명령	권한 부여 명령을 사용하면 사용자 계정을 관리할 수 있습니다.
구성 명령	구성 명령을 사용하여 통합 어플라이언스에 대한 관리 및 통합 구성을 모두 관리할 수 있습니다.
디버그 명령	디버그 명령을 사용하면 큐를 보고 스택을 처리할 수 있습니다.
HA 명령	고가용성 관리 명령. 이 명령은 통합 어플라이언스 고가용성(HA) 쌍에서만 사용 가능할 수 있습니다.
관리 명령	관리 명령을 사용하면 보안 설정을 사용하고 관리할 수 있습니다.
네트워크 명령	네트워크 명령을 사용하면 네트워크 구성을 관리할 수 있습니다.
Netspect 명령	네트워크 상호 검사 명령을 사용하면 네트워크 구성을 관리하고 DHCP 서버, DNS 서버, 게이트웨이, 라우트 정보를 네트워크에서 조회할 수 있습니다.
상태 명령	상태 명령을 사용하면 통합 어플라이언스 상태를 볼 수 있습니다.
시스템 명령	시스템 명령을 사용하면 통합 어플라이언스 및 커넥터의 라이선스 관리를 포함하여 통합 어플라이언스의 작업을 관리할 수 있습니다.
시간 명령	시간 명령을 사용하면 통합 어플라이언스에서 날짜 및 시간을 설정하거나 동기화할 수 있습니다.

상위 주제: [명령 인터페이스에 대한 정보](#)

## 권한 부여 명령

권한 부여 명령을 사용하면 사용자 계정을 관리할 수 있습니다.

- auth set user 명령**  
 auth set user 명령은 사용자의 비밀번호를 설정합니다. 사용자는 웹 관리 콘솔(WMC)을 사용하여 비밀번호를 변경하거나 관리자가 사용자의 비밀번호를 변경할 수 있습니다. 관리자는 WMC 또는 이 명령을 사용할 수 있습니다. 통합 어플라이언스에서는 관리자가 사용자의 비밀번호를 업데이트하기 위해 사용자의 이전 비밀번호를 알지 않아도 됩니다.
- auth set recovery 명령**  
 auth set recovery 명령을 사용하면 IBM® DataPower® Cast Iron® 어플라이언스에 대한 직렬 콘솔에서 admin 비밀번호를 재설정할 수 있습니다. 기본값은 on입니다.
- auth show recovery 명령**  
 auth show recovery 명령은 복구 상태(on 또는 off)를 표시합니다. on 상태인 경우 admin 비밀번호는 IBM DataPower Cast Iron 어플라이언스의 직렬 콘솔에서 재설정할 수 있습니다.

## auth set user 명령

auth set user 명령은 사용자의 비밀번호를 설정합니다. 사용자는 웹 관리 콘솔(WMC)을 사용하여 비밀번호를 변경하거나 관리자가 사용자의 비밀번호를 변경할 수 있습니다. 관리자는 WMC 또는 이 명령을 사용할 수 있습니다. 통합 어플라이언스에서는 관리자가 사용자의 비밀번호를 업데이트하기 위해 사용자의 이전 비밀번호를 알지 않아도 됩니다.

LDAP 디렉토리 서버에서 사용자 및 그룹에 대한 권한 부여 및 인증을 관리할 수 있는 경우 이 명령은 admin의 비밀번호를 변경하는 데만 사용할 수 있습니다.

## 구문

---

```
auth set user <user>
```

상위 주제: [권한 부여 명령](#)

## auth set recovery 명령

---

auth set recovery 명령을 사용하면 IBM® DataPower® Cast Iron® 어플라이언스에 대한 직렬 콘솔에서 admin 비밀번호를 재설정할 수 있습니다. 기본값은 on입니다.

옵션을 사용하는 경우 직렬 로그인 및 비어 있지 않은 비밀번호에서 사용자 이름에 대해 `resetpass`를 입력할 수 있습니다. 로그인하면 즉시 시스템에 대한 실제 액세스 권한이 있는지 묻습니다. 어플라이언스에 대한 실제 액세스 권한이 있는지 확인하기 위해 어플라이언스의 MGMT 포트에 이더넷 케이블을 분리했다가 다시 연결할 것을 요청합니다. 그러면 원격 포트 복제기에 대해 직렬 콘솔에 액세스하는 사용자가 없음을 확인합니다. 어플라이언스에 대한 실제 액세스 권한이 없는 경우 복구 옵션을 off로 설정해야 합니다.

## 구문

---

```
auth set recovery <on|off>
```

상위 주제: [권한 부여 명령](#)

## auth show recovery 명령

---

auth show recovery 명령은 복구 상태(on 또는 off)를 표시합니다. on 상태인 경우 admin 비밀번호는 IBM® DataPower® Cast Iron® 어플라이언스의 직렬 콘솔에서 재설정할 수 있습니다.

옵션을 사용하는 경우 직렬 로그인 및 비어 있지 않은 비밀번호에서 사용자 이름에 대해 `resetpass`를 입력할 수 있습니다. 로그인하면 즉시 시스템에 대한 실제 액세스 권한이 있는지 묻습니다. 어플라이언스에 대한 실제 액세스 권한이 있는지 확인하기 위해 어플라이언스의 MGMT 포트에 이더넷 케이블을 분리했다가 다시 연결할 것을 요청합니다. 그러면 원격 포트 복제기에 대해 직렬 콘솔에 액세스하는 사용자가 없음을 확인합니다. 어플라이언스에 대한 실제 액세스 권한이 없는 경우 auth set recovery 명령을 사용하여 복구 옵션을 off로 설정해야 합니다.

## 구문

---

```
auth show recovery
```

상위 주제: [권한 부여 명령](#)

## 구성 명령

---

구성 명령을 사용하여 통합 어플라이언스에 대한 관리 및 통합 구성을 모두 관리할 수 있습니다.

- [config load 명령](#)  
config load 명령은 FTP 또는 SFTP 서버에서 관리 구성 파일을 로드합니다. 통합 어플라이언스에서 구성 파일을 로드하면 통합 어플라이언스가 자동으로 다시 부팅됩니다.
- [config save 명령](#)  
config save 명령은 관리 구성 파일을 FTP 또는 SFTP 서버에 저장합니다.

## config load 명령

---

config load 명령은 FTP 또는 SFTP 서버에서 관리 구성 파일을 로드합니다. 통합 어플라이언스에서 구성 파일을 로드하면 통합 어플라이언스가 자동으로 다시 부팅됩니다.

사용자 이름, 호스트 이름 또는 파일 이름에 예약어를 사용하지 마십시오. 예약어로는 ftp, sftp, ibm, port, user, file이 포함됩니다.

참고: SFTP를 사용하는 경우 사용자 이름을 지정해야 합니다. 익명 로그인은 SFTP에서 허용되지 않습니다.

### FTP 구문

---

```
config load system ftp <host> [port <number>] [user <username>] file [<path>/]
<filename>
```

### SFTP 구문

---

```
config load system sftp <host> [port <number>] user <username> file [<path>/]
<filename>
```

상위 주제: 구성 명령

## config save 명령

---

config save 명령은 관리 구성 파일을 FTP 또는 SFTP 서버에 저장합니다.

참고: 사용자 이름, 호스트 이름 또는 파일 이름에 예약어를 사용하지 마십시오. 예약어로는 ftp, sftp, ibm, port, user, file이 포함됩니다.

### FTP 구문

---

FTP 서버에 구성 파일을 저장하는 경우 사용자 이름을 생략하면 통합 어플라이언스는 익명을 사용합니다.

```
config save system ftp <host> [port <number>] [user <username>] file [<path>/]
<filename>
```

**예제:**호스트 tern에서 실행 중인 FTP 서버에 현재 시스템 구성을 old\_sys\_config.cfg로 저장합니다. FTP 사용자 로그인 이름은 Joe입니다.

```
config save system ftp tern user joe file old_sys_config.cfg
```

### SFTP 구문

---

SFTP 서버에 구성 파일을 저장하는 경우 사용자 이름을 지정해야 합니다. 익명 로그인은 SFTP에서 허용되지 않습니다.

```
config save system sftp <host> [port <number>] user <username> file [<path>/]
<filename>
```

상위 주제: 구성 명령

## 디버깅 명령

---

디버깅 명령을 사용하면 큐를 보고 스택을 처리할 수 있습니다.

- **debug postmortem export 명령**  
debug postmortem export 명령은 사용자가 지정한 FTP 또는 SFTP 서버로 postmortem 아카이브를 내보냅니다.
- **debug postmortem generate all 명령**  
debug postmortem generate all 명령은 통합 어플라이언스 로그, 오케스트레이션 로그, 트랜잭션 저장소에서 수집한 정보 아카이브를 생성합니다. 이는 통합 어플라이언스 문제를 디버그하는 데 도움을 줄 수 있습니다.
- **debug postmortem generate full logs 명령**  
debug postmortem generate full logs 명령은 모든 통합 어플라이언스 로그의 postmortem 아카이브(아카이브된 로그 외에도 새 로그 포함)를 생성하고 가능한 경우 이전에 debug show stack 명령을 실행하여 생성된 여러 스택을 생성합니다.
- **debug postmortem generate new logs 명령**  
debug postmortem generate new logs 명령은 모든 최신 통합 어플라이언스 로그의 postmortem 아카이브를 생성하고 가능한 경우 이전에 debug show stack 명령을 실행하여 생성된 여러 스택을 생성합니다.
- **debug postmortem generate store 명령**  
debug postmortem generate store 명령은 debug postmortem generate all 명령과 유사하지만, 통합 어플라이언스가 트랜잭션 저장소에서 모든 통합 어플라이언스 로그의 postmortem 아카이브 및 데이터만 생성한다는 점이 다릅니다.
- **debug show stacks 명령**  
debug show stacks 명령은 현재 런타임 스택 추적을 표시합니다.
- **debug system 명령**  
debug system 명령은 통합 어플라이언스 런타임을 시작 및 중지할 수 있습니다. debug system stop 명령을 실행하면 실행 중인 모든 오케스트레이션 작업이 취소되고 통합 어플라이언스는 새 오케스트레이션 작업을 처리하지 않습니다.
- **debug tail file 명령**  
debug tail file 명령은 로그에 추가될 때 로그 파일 콘텐츠를 표시합니다.
- **debug top 명령**  
debug top file 명령은 동적으로 프로세스 상태를 표시합니다.
- **debug job 명령**  
debug job 명령을 사용하면 실행 중인 작업의 로그 및 지시사항 세트를 캡처할 수 있습니다.

## debug postmortem export 명령

debug postmortem export 명령은 사용자가 지정한 FTP 또는 SFTP 서버로 postmortem 아카이브를 내보냅니다.

통합 어플라이언스에서는 내보내기 파일 이름을 지정하지 않아도 됩니다. 그러나 우수 사례로, 통합 어플라이언스 일련 번호, 날짜, 시간소인을 포함해야 합니다. 내보내기 파일 이름을 지정하지 않으면 통합 어플라이언스는 이름이 postmortem.tar.gz인 파일을 내보냅니다.

참고: 사용자 이름, 호스트 이름 또는 파일 이름에 예약어를 사용하지 마십시오. 예약어로는 ftp, sftp, postmortem, debug, export, ibm, port, user, file이 포함됩니다.

## FTP 구문

```
debug postmortem export ftp <hostname> [port <number>][user <user>][file <filename>]
```

여기서

표 1.

옵션	설명
<i>hostname</i>	FTP 서버 이름을 지정합니다.
<i>number</i>	FTP 서버에 연결하는 데 사용할 포트 번호를 지정합니다.

옵션	설명
<i>user</i>	FTP 서버에 로그인하는 데 사용하는 사용자 이름을 지정합니다.
<i>filename</i>	postmortem 아카이브를 저장하는 파일 이름을 지정합니다.

사용자 입력:

- `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 구문

SSH FTP(File Transfer Protocol)를 사용하여 postmortem을 내보내려는 경우 다음 SFTP 구문을 사용합니다.

참고: postmortem 파일을 SFTP 서버로 내보내는 경우 사용자 이름을 지정해야 합니다. 익명 로그인은 SFTP에서 허용되지 않습니다.

```
debug postmortem export sftp <hostname> [port <number>] user <user> [file <filename> ]
```

여기서

표 2.

옵션	설명
<i>hostname</i>	SFTP 서버 이름을 지정합니다.
<i>number</i>	SFTP 서버에 연결하는 데 사용할 포트 번호를 지정합니다.
<i>user</i>	SFTP 서버에 로그인하는 데 사용하는 사용자 이름을 지정합니다.
<i>filename</i>	postmortem 아카이브를 저장하는 파일 이름을 지정합니다.

사용자 입력:

- `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`

## IBM 지원 센터로 파일 내보내기

postmortem 파일을 IBM 지원 센터로 내보냅니다.

```
debug postmortem export ibm pmr <pmrnumber>
```

여기서

- *pmrnumber* - IBM 지원 센터에서 열린 PMR 번호. 예: `debug postmortem export ibm pmr 55555.555.555`

상위 주제: [디버깅 명령](#)

## debug postmortem generate all 명령

debug postmortem generate all 명령은 통합 어플라이언스 로그, 오케스트레이션 로그, 트랜잭션 저장소에서 수집한 정보 아카이브를 생성합니다. 이는 통합 어플라이언스 문제를 디버깅하는 데 도움을 줄 수 있습니다.

postmortem 아카이브는 명령을 다시 실행할 때까지 통합 어플라이언스에 남아 있습니다. 이 명령을 실행하면 통합 어플라이언스는 이전 postmortem 아카이브를 겹쳐쓰는 새 아카이브를 생성합니다.

통합 어플라이언스를 다시 부팅하고 기술 지원에 문의하기 전에 이 명령을 실행합니다.

## 구문

---

```
debug postmortem generate all
```

상위 주제: [디버깅 명령](#)

## debug postmortem generate full logs 명령

---

debug postmortem generate full logs 명령은 모든 통합 어플라이언스 로그의 postmortem 아카이브(아카이브된 로그 외에도 새 로그 포함)를 생성하고 가능한 경우 이전에 debug show stack 명령을 실행하여 생성된 여러 스택을 생성합니다.

postmortem 아카이브는 명령을 다시 실행할 때까지 통합 어플라이언스에 남아 있습니다. 이 명령을 실행하면 통합 어플라이언스는 이전 postmortem 아카이브를 겹쳐쓰는 새 아카이브를 생성합니다.

## 구문

---

```
debug postmortem generate fulllogs
```

상위 주제: [디버깅 명령](#)

## debug postmortem generate new logs 명령

---

debug postmortem generate new logs 명령은 모든 최신 통합 어플라이언스 로그의 postmortem 아카이브를 생성하고 가능한 경우 이전에 debug show stack 명령을 실행하여 생성된 여러 스택을 생성합니다.

postmortem 아카이브는 명령을 다시 실행할 때까지 통합 어플라이언스에 남아 있습니다. 이 명령을 다시 실행하면 통합 어플라이언스는 이전 postmortem 아카이브를 겹쳐쓰는 새 아카이브를 생성합니다.

## 구문

---

```
debug postmortem generate newlogs
```

상위 주제: [디버깅 명령](#)

## debug postmortem generate store 명령

---

debug postmortem generate store 명령은 debug postmortem generate all 명령과 유사하지만, 통합 어플라이언스가 트랜잭션 저장소에서 모든 통합 어플라이언스 로그의 postmortem 아카이브 및 데이터만 생성한다는 점이 다릅니다.

postmortem 아카이브는 명령을 다시 실행할 때까지 통합 어플라이언스에 남아 있습니다. 이 명령을 다시 실행하면 통합 어플라이언스는 이전 postmortem 아카이브를 겹쳐쓰는 새 아카이브를 생성합니다.

## 구문

---

```
debug postmortem generate store
```

상위 주제: 디버깅 명령

## debug show stacks 명령

---

debug show stacks 명령은 현재 런타임 스택 추적을 표시합니다.

### 구문

---

```
debug show stacks
```

상위 주제: 디버깅 명령

## debug system 명령

---

debug system 명령은 통합 어플라이언스 런타임을 시작 및 중지할 수 있습니다. debug system stop 명령을 실행하면 실행 중인 모든 오케스트레이션 작업이 취소되고 통합 어플라이언스는 새 오케스트레이션 작업을 처리하지 않습니다.

### 구문

---

```
debug system {start|stop }
```

상위 주제: 디버깅 명령

## debug tail file 명령

---

debug tail file 명령은 로그에 추가될 때 로그 파일 콘텐츠를 표시합니다.

### 구문

---

```
debug tail file<filename>
```

상위 주제: 디버깅 명령

## debug top 명령

---

debug top file 명령은 동적으로 프로세스 상태를 표시합니다.

### 구문

---

```
debug top
```

상위 주제: 디버깅 명령

## debug job 명령

---

debug job 명령을 사용하면 실행 중인 작업의 로그 및 지시사항 세트를 캡처할 수 있습니다.

### 구문

---

```
debug job <jobid>
```

상위 주제: 디버깅 명령

## 고가용성 명령

고가용성(HA) 관리 명령. 이 명령은 통합 어플라이언스 HA 쌍에서만 사용 가능할 수 있습니다.

- **ha active 명령**  
ha active 명령은 유틸 시스템을 활성 시스템이 되도록 지시합니다. 피어가 없거나 피어 시스템이 유틸 상태인 경우에만 이 명령을 실행할 수 있습니다.
- **ha conncheck 명령**  
ha conncheck 명령은 고가용성 쌍과 관련된 가능한 연결 문제점 진단에 도움을 주도록 관련 정보를 제공합니다. 이 명령은 활성 모드에서만 사용 가능합니다.
- **ha disconnect 명령**  
ha disconnect 명령은 대기 시스템이 활성 시스템을 인계하지 않고 HA 쌍의 연결을 임시로 끊습니다. 이 명령은 활성 모드에서만 사용 가능합니다.
- **ha power off standby 명령**  
ha power off standby 명령은 고가용성 쌍에서 대기 통합 어플라이언스를 끕니다. 이 명령은 활성 모드에서만 사용 가능합니다.
- **ha power on standby 명령**  
ha power on standby 명령은 고가용성 쌍에서 대기 통합 어플라이언스를 켭니다. 이 명령은 활성 모드에서만 사용 가능합니다.
- **ha reboot 명령**  
ha reboot 명령은 사용자가 지정한 통합 어플라이언스(활성 또는 대기)의 시스템 다시 부팅을 완료합니다. ha reboot 명령은 HA 쌍에서만 사용할 수 있습니다. ha reboot standby 명령을 실행하는 경우 대기 통합 어플라이언스는 다시 부팅되지만, 활성 통합 어플라이언스는 계속 데이터를 처리합니다. ha reboot active 명령을 실행하면 활성 통합 어플라이언스는 모든 라우팅 서비스를 시스템 종료하고 다시 부팅됩니다. 대기 통합 어플라이언스는 장애 복구 기능을 제공하지 않으며, 활성 통합 어플라이언스가 다시 온라인이 될 때까지 데이터는 처리되지 않습니다. 장애 복구 기능을 시뮬레이션하려면 ha switch 명령을 사용하여 HA 쌍에서 시스템 모드를 전환합니다. 활성 통합 어플라이언스(A1)는 대기 통합 어플라이언스(S2)가 되고, 대기 통합 어플라이언스(S1)는 활성 통합 어플라이언스(A2)가 됩니다. HA 쌍에서 통합 어플라이언스가 모드를 전환한 후에 ha reboot standby 명령을 실행합니다. S1은 계속 데이터를 처리하고, A1은 다시 부팅됩니다.
- **ha show lastaccess 명령**  
ha show lastaccess 명령은 통합 어플라이언스에서 마지막 10개 상태 전이를 표시합니다. 유틸 모드에서만 사용 가능합니다.
- **ha show pairstatus 명령**  
ha show pairstatus 명령은 고가용성 쌍의 상태를 표시하며, 이때 활성 통합 어플라이언스와 대기 통합 어플라이언스에 대한 정보를 제공합니다. 활성 모드에서만 사용 가능합니다.
- **ha switch 명령**  
ha switch 명령은 고가용성 쌍에서 통합 어플라이언스의 역할을 전환합니다. 활성 시스템은 대기 시스템이 되고 대기 시스템은 활성 시스템이 됩니다. 활성 모드에서만 사용 가능합니다.

## ha active 명령

ha active 명령은 유틸 시스템을 활성 시스템이 되도록 지시합니다. 피어가 없거나 피어 시스템이 유틸 상태인 경우에만 이 명령을 실행할 수 있습니다.

## 구문

참고: 이 명령을 잘못 사용하면 데이터가 손상될 수 있습니다.

ha active

상위 주제: [고가용성 명령](#)



## ha conncheck 명령

---

ha conncheck 명령은 고가용성 쌍과 관련된 가능한 연결 문제점 진단에 도움을 주도록 관련 정보를 제공합니다. 이 명령은 활성 모드에서만 사용 가능합니다.

### 구문

---

```
ha conncheck
```

상위 주제: [고가용성 명령](#)

## ha disconnect 명령

---

ha disconnect 명령은 대기 시스템이 활성 시스템을 인계하지 않고 HA 쌍의 연결을 임시로 끊습니다. 이 명령은 활성 모드에서만 사용 가능합니다.

이 조치를 통해 오케스트레이션 처리를 인터럽트하지 않고도 대기 시스템에서 필요한 하드웨어 또는 소프트웨어 유지보수를 수행할 수 있습니다.

이 조치를 선택하면 대기 시스템이 유휴 상태로 전환됩니다. 활성 시스템을 다시 부팅하거나 연결 조치를 실행하여 HA 쌍 사이의 통신을 다시 설정하고 데이터 동기화 및 장애 복구 조작을 재개합니다.

활성 시스템에서 유지보수를 수행하려면 전환 조치를 사용합니다. 활성 시스템이 대기 시스템이 됩니다. 이때 오케스트레이션 처리를 인터럽트하지 않고도 연결 끊기 조치를 실행하고 통합 어플라이언스 유지보수를 수행할 수 있습니다.

### 구문

---

```
ha disconnect
```

상위 주제: [고가용성 명령](#)

## ha power off standby 명령

---

ha power off standby 명령은 고가용성 쌍에서 대기 통합 어플라이언스를 끕니다. 이 명령은 활성 모드에서만 사용 가능합니다.

### 구문

---

```
ha poweroff standby
```

상위 주제: [고가용성 명령](#)

## ha power on standby 명령

---

ha power on standby 명령은 고가용성 쌍에서 대기 통합 어플라이언스를 켭니다. 이 명령은 활성 모드에서만 사용 가능합니다.

### 구문

---

```
ha poweron standby
```

상위 주제: [고가용성 명령](#)

## ha reboot 명령

---

ha reboot 명령은 사용자가 지정한 통합 어플라이언스(활성 또는 대기)의 시스템 다시 부팅을 완료합니다. ha reboot 명령은 HA 쌍에서만 사용할 수 있습니다. ha reboot standby 명령을 실행하는 경우 대기 통합 어플라이언스는 다시 부팅되지 만, 활성 통합 어플라이언스는 계속 데이터를 처리합니다. ha reboot active 명령을 실행하면 활성 통합 어플라이언스는 모든 라우팅 서비스를 시스템 종료하고 다시 부팅됩니다. 대기 통합 어플라이언스는 장애 복구 기능을 제공하지 않으며, 활성 통합 어플라이언스가 다시 온라인이 될 때까지 데이터는 처리되지 않습니다. 장애 복구 기능을 시뮬레이션하려면 ha switch 명령을 사용하여 HA 쌍에서 시스템 모드를 전환합니다. 활성 통합 어플라이언스(A1)는 대기 통합 어플라이언스(S2)가 되고, 대기 통합 어플라이언스(S1)는 활성 통합 어플라이언스(A2)가 됩니다. HA 쌍에서 통합 어플라이언스가 모드 를 전환한 후에 ha reboot standby 명령을 실행합니다. S1은 계속 데이터를 처리하고, A1은 다시 부팅됩니다.

### 구문

---

```
ha reboot {active|standby}
```

상위 주제: [고가용성 명령](#)

## ha show lastaccess 명령

---

ha show lastaccess 명령은 통합 어플라이언스에서 마지막 10개 상태 전이를 표시합니다. 유휴 모드에서만 사용 가능합니 다.

### 구문

---

```
ha show lastaccess
```

유휴에서 활성으로의 통합 어플라이언스 상태 전이는 다음 정보를 표시합니다.

```
[GMT] Jan 10 00:55:50 State changed from 'IDLE' to 'ACTIVE_1'
```

상위 주제: [고가용성 명령](#)

## ha show pairstatus 명령

---

ha show pairstatus 명령은 고가용성 쌍의 상태를 표시하며, 이때 활성 통합 어플라이언스와 대기 통합 어플라이언스에 대 한 정보를 제공합니다. 활성 모드에서만 사용 가능합니다.

### 구문

---

```
ha show pairstatus
```

상위 주제: [고가용성 명령](#)

## ha switch 명령

---

ha switch 명령은 고가용성 쌍에서 통합 어플라이언스의 역할을 전환합니다. 활성 시스템은 대기 시스템이 되고 대기 시스 템은 활성 시스템이 됩니다. 활성 모드에서만 사용 가능합니다.

### 구문

---

```
ha switch
```

## 관리 명령

사용 가능한 관리(mgmt) 명령의 목록입니다.

참고: 다음표가 필요한 커뮤니티 이름을 지정하는 경우 큰따옴표(“ ”)를 사용해야 합니다.

표 1.

명령어	조치	구문
mgmt kerberos del config	Kerberos 영역 및 KDC 서버 구성을 삭제합니다.	mgmt kerberos del config
mgmt kerberos set realm	Kerberos 영역 및 KDC 서버 구성 설정을 지정할 수 있습니다.	mgmt kerberos set realm<name>kdc<name   ipaddress>
mgmt kerberos show config	Kerberos 영역 및 KDC 서버 구성 설정을 표시합니다.	mgmt kerberos show config
mgmt motd	CLI에 사용자가 로그인한 경우 표시되는 날짜의 메시지를 설정할 수 있습니다. show 매개변수를 선택하여 설정할 날짜의 메시지를 볼 수 있습니다. clear 매개변수를 선택하면 CLI에 사용자가 로그인한 경우 해당 날짜의 메시지가 표시되지 않습니다.	mgmt motd{set show clear}
mgmt secure	관리 인터페이스에서 통합 어플라이언스에 대한 보안 액세스를 사용하거나 사용 해제합니다. 기본 옵션은 on으로, 보안 관리 액세스를 사용하는 것입니다. 보안 관리 액세스가 사용 가능하면(on) SSH(Secure Shell)를 사용하여 CLI에 액세스하고 HTTPS를 사용하여 웹 관리 콘솔(WMC)에 액세스해야 합니다. off 옵션을 선택하여 보안 관리 액세스를 사용하지 않으면 Telnet을 사용해 CLI에 액세스하고 HTTP를 사용해 WMC에 액세스할 수 있습니다.  mgmt secure setting 명령을 사용하여 현재 보안 설정 확인	mgmt secure { on   off   setting }

명령어	조치	구문
mgmt snmp set	현재 SNMP 구성을 설정하거나 업데이트하고 SNMP MIB2 서비스를 사용 및 사용 해제할 수 있습니다. SNMP 명령 사용에 대한 자세한 정보는 <a href="#">SNMP 기본</a> 을 참조하십시오.	1. mgmt snmp set { community   description   location   contact } <value>  2. mgmt snmp set { on   off }
mgmt snmp show	현재 SNMP 구성 설정을 표시합니다.	mgmt snmp show { community   description   location   contact   all   status }
mgmt ssh add	통합 어플라이언스의 SSH 저장소에 지정된 호스트의 공개 키를 추가합니다. 통합 어플라이언스에서 엄격한(strict) SSH 키 검사를 사용하는 경우 통합 어플라이언스가 SFTP를 사용하여 연결하는 모든 참여 엔드포인트 시스템에 대해 SSH 저장소에 공개 키가 있어야 합니다.  이 명령을 실행한 후에 통합 어플라이언스를 다시 시작합니다.  참고: keytype은 필수 매개변수입니다.	mgmt ssh add<rsa dsa>host<name ipaddr name,ipaddr>
mgmt ssh del	통합 어플라이언스의 SSH 저장소에서 지정된 호스트의 공개 키를 삭제합니다.  이 명령을 실행한 후에 통합 어플라이언스를 다시 시작합니다.  참고: keytype은 필수 매개변수입니다.	mgmt ssh del host<hostname>   host IP address>
mgmt ssh keycheck	엄격한(strict) SSH 키 검사를 사용하거나 사용 해제합니다.  엄격한(strict) 모드에서는 참여 엔드포인트 시스템의 공개 키가 통합 어플라이언스의 SSH 저장소에 저장된 공개 키와 일치하는 경우에만 SFTP 커넥터를 해당 참여 엔드포인트 시스템에 연결합니다.  간편(easy) 모드에서는 다음 경우 중 하나에 SFTP 커넥터를 참여 엔드포인트 시스템에 연결합니다. <ul style="list-style-type: none"> <li>해당 시스템의 공개 키가 SSH 저장소에 저장된 공개 키와 일치하는 경우</li> <li>SSH 저장소에 공개 키가 없는 경우. 키가 없으면 커넥터는 참여 엔드포인트 시스템에서 SSH 저장소로 현재 공개 키를 로드합니다.</li> </ul>	mgmt ssh keycheck<strict easy>
mgmt ssh list	SSH 저장소에 공개 키가 있는 모든 호스트 또는 지정된 호스트를 표시합니다. SSH 저장소의 공개 키는 보안 연결을 보장하기 위해 SFTP 커넥터와 함께 사용됩니다.	mgmt ssh list[host<name host IP address>]

명령어	조치	구문
mgmt ssh show keycheck	SSH 키 검사의 현재 설정(strict 또는 easy)을 표시합니다.	mgmt ssh show keycheck
mgmt syslog del config	시스템 로그(syslog) 구성을 삭제할 수 있습니다.	mgmt syslog del config
mgmt syslog set remote host	로그를 전송하는 원격 호스트를 지정할 수 있습니다.	mgmt syslog set remote host<name   host IP address>
mgmt syslog show config	현재 시스템 로그(syslog) 구성 설정을 표시합니다.	mgmt syslog show config

## 네트워크 명령

네트워크 구성을 관리하는 데 사용할 수 있는 네트워크 명령입니다.

표 1.

명령어	조치	구문

명령어	조치	구문
net add etchost	<p>통합 어플라이언스의 /etc/hosts 구성 파일에 항목을 추가합니다.</p> <p>일반적으로 IP 주소는 어플라이언스의 관리 IP 주소입니다. 완전한 호스트 이름(예: <i>myhost.mydept.mycompany.com</i>)을 사용하는 것이 우수 사례입니다. 또한 별명이 선택적 매개변수여도 별명(예: <i>myhost</i>)을 지정하는 것이 우수 사례입니다.</p> <p>다음은 net add etchost 명령에 대한 예제입니다.</p> <pre>net add etchost address 111.222.333.444 hostname myhost.mydept.mycompany.com alias myhost</pre> <p>완전한 이름이 아닌 호스트 이름으로 이전에 항목을 추가한 경우 완전한 호스트 이름의 항목을 추가하기 전에 먼저 net del etchost 명령을 사용하여 이전 항목을 제거해야 합니다. net show etchost 명령을 사용하여 항목이 삭제되었는지 확인합니다.</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	<p>라우팅 테이블에 정적 라우트를 추가합니다.</p>	<pre>net add route address &lt;destination&gt; mask &lt;netmask&gt; [gateway &lt;gateway&gt;] interface {emgmt   edata}</pre>
net del etchost	<p>통합 어플라이언스의 /etc/hosts 구성 파일에서 하나 이상의 항목을 제거합니다.</p> <p>net add etchost 명령을 사용하여 항목을 추가한 경우 사용한 같은 매개변수를 지정합니다. net show etchost 명령을 사용하여 세부사항을 확인할 수 있습니다.</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	<p>라우팅 테이블에서 정적 라우트를 제거합니다.</p>	<pre>net del route address &lt;ip-address&gt; mask &lt;mask&gt;</pre>
net flush dhcp	<p>통합 어플라이언스에서 캐시된 DHCP 값을 지웁니다.</p>	<pre>net flush dhcp</pre>
net ping	<p>네트워크에서 응답하는지 판별하기 위해 지정된 호스트를 조회합니다.</p>	<pre>net ping {&lt;ip-address&gt;   &lt;nodename&gt;}</pre>
net restart	<p>새 네트워크 설정을 저장하고 적용합니다. 변경사항을 적용하려면 net set, net add 또는 net del 명령 후에 이 명령을 사용해야 합니다.</p>	<pre>net restart</pre>
net restore	<p>메모리를 활성 또는 백업 설정으로 복원합니다.</p>	<pre>net restore {active backup}</pre>

명령어	조치	구문
net trace route	지정된 노드에 대한 네트워크 라우트를 추적합니다.	net traceroute <ip-address> <nodename>
net validate	<p>현재 인메모리 설정을 테스트하고 네트워크의 올바른 작동을 방해할 수 있는 경고나 오류를 표시합니다.</p> <p>모든 네트워크 설정이 허용 가능한 경우 이 명령을 실행하면 "현재 네트워크 설정을 적용할 수 있습니다."와 같은 메시지가 나타납니다.</p> <p>올바르지 않은 설정을 입력한 경우 이 명령을 실행하면 대응하는 경고 또는 오류 메시지가 리턴됩니다. 예를 들어, 다음과 같습니다.</p> <pre>warning: Route to 9.43.79.4 requires static Data IP address</pre> <pre>error: Gateway 9.9.9.9 is not reachable from emgmt</pre> <p>Current network settings cannot be applied</p>	net validate

net set 및 net show 명령의 경우 다음 주제를 참조하십시오.

- **net set 명령**  
통합 어플라이언스, DNS 서버, 호스트 이름, 기본 게이트웨이의 네트워크 인터페이스에 대한 구성을 설정합니다. net set autohost 명령을 선택하여 통합 어플라이언스에 호스트 이름/IP 주소를 자동으로 추가합니다. 또한 유실된 캐리어를 보고하기 전에 시간을 설정할 수도 있습니다.
- **net show 명령**  
이 명령은 통합 어플라이언스에 대한 모든 네트워크 구성을 표시합니다. 또한 이 명령은 네트워크 인터페이스, DNS 서버, 호스트 이름, 기본 게이트웨이, 라우팅 테이블, 소켓 연결에 대한 특정 구성 정보를 표시합니다. net set autohost 명령을 사용하는 경우 net show autohost를 사용하여 autohost의 현재 설정을 봅니다.

## net set 명령

통합 어플라이언스, DNS 서버, 호스트 이름, 기본 게이트웨이의 네트워크 인터페이스에 대한 구성을 설정합니다. net set autohost 명령을 선택하여 통합 어플라이언스에 호스트 이름/IP 주소를 자동으로 추가합니다. 또한 유실된 캐리어를 보고하기 전에 시간을 설정할 수도 있습니다.

DHCP 서버가 없는 네트워크에서 시작 시간을 향상시키기 위해 모든 항목을 특정 값으로 구성하거나 값을 구성하지 않습니다. 그러면 통합 어플라이언스는 DHCP 서버를 검색하지 않습니다.

DHCP를 통해 값을 얻도록 구성한 경우 통합 어플라이언스는 사용 가능한 DHCP 서버를 찾기 때문에 시작 시간이 지연될 수 있습니다.

통합 어플라이언스의 네트워크 인터페이스는 다음 이름을 사용합니다.

- edata - 모든 통합 데이터를 처리하는 인터페이스의 경우
- emgmt - CLI 및 웹 관리 콘솔(WMC) 모두를 포함하여 관리 트래픽을 처리하는 인터페이스의 경우

표 1.

옵션	설명
autohost	통합 어플라이언스가 고유한 호스트 이름에서 해당 IP 주소를 찾을 수 있습니다. 이 옵션을 사용하는 경우 통합 어플라이언스가 DNS 또는 수동으로 /etc/hosts 디렉토리에 입력한 항목을 통해 해당 호스트 이름에 대응하는 IP 주소를 찾을 수 없으면 통합 어플라이언스는 CIOS가 정상적으로 작동하도록 /etc/hosts 디렉토리에 항목을 자동으로 추가합니다. net set autohost 명령을 통해 이 옵션을 사용하거나 사용 해제합니다.
carrier	누락된 이더넷 링크 캐리어가 오류로 보고될 때까지 시간(초)을 지정합니다. 값을 0으로 설정하면 캐리어 검사를 사용하지 않으며, 오류는 보고되지 않습니다.
domain	이 통합 어플라이언스에 대한 도메인 이름을 설정합니다. 그 결과, 이 도메인에서 이름에 대한 대부분의 조회는 로컬 도메인에 상대적인 간단한 이름을 사용할 수 있습니다.
gateway	게이트웨이 및 해당 게이트웨이에서 사용할 인터페이스를 지정합니다. 통합 어플라이언스는 관리 및 데이터 트래픽 모두에 대해 하나의 기본 게이트웨이만 지원하지만(인터페이스당 하나의 게이트웨이와는 반대됨), 추가 라우트를 별도로 추가할 수 있습니다.
hostname	통합 어플라이언스의 이름을 설정합니다. 도메인 이름 없이 간단한 호스트 이름이어야 합니다.
interface	지정된 인터페이스에 대한 IP 주소, 넷마스크, 브로드캐스트 주소를 설정합니다.
link	autonegotiate(기본값) 또는 특정 값으로 이더넷 링크를 설정합니다. 대부분의 경우 autonegotiate가 선호되지만, 특정 값을 설정하면 네트워크 조건이 최적이지 아닌 경우에 처리량을 향상시키는 데 도움을 줄 수도 있습니다.
mtu	MTU(Maximum Transmission Unit) 크기를 (68-9000)의 범위로 설정합니다. 기본 MTU는 1500입니다.



옵 션	설명
n a m e s e r v e r	DNS 서버 목록(최대 2개)을 설정합니다.
nt p	시간 서버를 설정합니다.
s e a r c h	검색 목록을 지정합니다. 이 옵션을 설정하지 않으면 검색 목록은 도메인 설정의 값과 동일합니다.

## 구문 1

```
net set autohost [enable|disable ]
```

## 구문 2

```
net set carrier timeout <timeout>
```

## 구문 3

```
net set {domain|search|nameserver|ntp} {dhcp[emgmt|edata]|static <value>|none}
```

**예제 1:** 특정 도메인 이름을 설정합니다.

```
net set domain static mydomain.com
```

**예제 2:** 관리 NIC의 DHCP 서버에 NTP 서버를 요청합니다.

```
net set ntp dhcp emgmt
```

**예제 3:** 지정된 도메인에서 호스트 이름을 검색합니다.

```
net set search static a.mydomain.com b.mydomain.com
```

**예제 4:** 다른 도메인에서 호스트 이름을 검색하지 않습니다.

```
net set search none
```

## 구문 4

```
net set gateway {dhcp {emgmt|edata}|static <ipaddress> {emgmt|edata}|none}
```

## 구문 5

```
net set hostname {dhcp[emgmt|edata]|static <value>}
```

## 구문 6

```
net set interface {emgmt|edata} {dhcp|address <ipaddress> mask <mask> [bcast <bcast>]}
```

## 구문 7

```
net set link {emgmt|edata} {autonegotiate|speed <speed> duplex {half|full}}
```

## 구문 8

```
net set mtu {emgmt|edata} <MTU>
```

상위 주제: [네트워크 명령](#)

## net show 명령

이 명령은 통합 어플라이언스에 대한 모든 네트워크 구성을 표시합니다. 또한 이 명령은 네트워크 인터페이스, DNS 서버, 호스트 이름, 기본 게이트웨이, 라우팅 테이블, 소켓 연결에 대한 특정 구성 정보를 표시합니다. net set autohost 명령을 사용하는 경우 net show autohost를 사용하여 autohost의 현재 설정을 봅니다.

net show 명령과 함께 메모리에서 네트워크 설정 변경사항의 컬렉션을 실행할 수 있습니다. 통합 어플라이언스는 이러한 변경사항을 지속시키지 않습니다. net show 명령은 net restart 명령을 실행한 후에만 영구적으로 적용됩니다.

- Active - 현재 실행 중인 통합 어플라이언스에 대한 네트워크 설정을 표시합니다.
- Memory - net restart 명령을 실행한 경우 활성 상태가 되는 스테이징 통합 어플라이언스의 네트워크 설정을 표시합니다.
- Backup - 이전 net restart 명령을 실행하기 전에 활성 상태였던 통합 어플라이언스를 지정합니다.

통합 어플라이언스의 네트워크 인터페이스는 다음 이름을 사용합니다.

- edata - 모든 통합 데이터를 처리하는 인터페이스의 경우
- emgmt - CLI 및 웹 관리 콘솔 모두를 포함하여 관리 트래픽을 처리하는 인터페이스의 경우

표 1. . 다음 표에서는 다양한 명령 구문에서 사용 가능한 옵션에 대한 설명을 제공합니다.

옵 션	설명
al l	통합 어플라이언스에 대한 모든 네트워크 구성 정보를 표시합니다.
a c t i v e	전체 네트워크 구성을 표시합니다.
a u t o h o s t	통합 어플라이언스가 고유한 호스트 이름에서 해당 IP 주소를 찾을 수 있습니다. 이 옵션을 사용하는 경우 통합 어플라이언스가 DNS 또는 수동으로 /etc/hosts 디렉토리에 입력한 항목을 통해 해당 호스트 이름에 대응하는 IP 주소를 찾을 수 없으면 통합 어플라이언스는 런타임에서 정상적으로 작동하도록 /etc/hosts 디렉토리에 항목을 자동으로 추가합니다. net set autohost 명령을 통해 이 옵션을 사용하거나 사용 해제합니다.

옵션	설명
b a c k u p	전체 네트워크 구성을 표시합니다.
c a r r i e r	누락된 이더넷 링크 캐리어가 오류로 보고될 때까지 시간(초)을 지정합니다. 값을 0으로 설정하면 캐리어 검사를 사용하지 않으며, 오류는 보고되지 않습니다.
d o m a i n	이 통합 어플라이언스에 대한 도메인 이름을 표시합니다. 그 결과, 이 도메인에서 이름에 대한 대부분의 조회는 로컬 도메인에 상대적인 간단한 이름을 사용할 수 있습니다.
e t c h o s t	/etc/hosts에 있는 항목을 표시합니다.
g a t e w a y	게이트웨이 및 해당 게이트웨이에서 사용할 인터페이스를 지정합니다. 통합 어플라이언스는 관리 및 데이터 트래픽 모두에 대해 하나의 기본 게이트웨이만 지원하지만(인터페이스당 하나의 게이트웨이와는 반대됨), 추가 라우트를 별도로 추가할 수 있습니다.
h o s t n a m e	통합 어플라이언스의 이름을 표시합니다. 도메인 이름 없이 간단한 호스트 이름이어야 합니다.
i n t e r f a c e	지정된 인터페이스에 대한 IP 주소, 넷마스크, 브로드캐스트 주소를 표시합니다.
l i n k	autonegotiate(기본값) 또는 특정 값으로 이더넷 링크를 설정합니다. 대부분의 경우 autonegotiate가 선호되지만, 특정 값을 설정하면 네트워크 조건이 최적이지 아닌 경우에 처리량을 향상시키는 데 도움을 줄 수도 있습니다.

옵션	설명
m e m o r y	전체 네트워크 구성을 표시합니다.
m t u	IP 패킷의 데이터에 대한 MTU(Maximum Transmission Unit) 크기를 표시합니다.
n a m e s e r v e r	DNS 서버 목록(최대 2개)을 표시합니다.
n o d e	노드의 IP 주소를 표시합니다.
nt p	어플라이언스 및 네트워크 사이에서 클럭 동기화를 위해 네트워크 프로토콜을 표시합니다.
ro u t e	활성 라우트를 표시합니다.
s e a r c h	검색 목록을 지정합니다. 이 옵션을 설정하지 않으면 검색 목록은 도메인 설정의 값과 동일합니다.
s o c k e t s	소켓 주소 목록을 표시합니다.
st a t u s	네트워킹을 시작한 마지막 시도, 네트워킹이 시작된 마지막 시간, 네트워킹이 중지된 마지막 시간, 마지막 네트워킹의 중지 이유, 현재 네트워킹 활동을 포함하여 통합 어플라이언스에서 네트워크 상태를 표시합니다.

## 구문 1

```
net show {active|memory|backup}
```

## 구문 2

```
net show {hostname|domain|search|nameserver|gateway|ntp} [ all|active|memory|backup]
```

지정하지 않으면 마지막 매개변수의 기본값은 active입니다.

### 구문 3

---

```
net show autohost
```

### 구문 4

---

```
net show carrier [all|active|memory|backup]
```

### 구문 5

---

```
net show etchost
```

### 구문 6

---

```
net show interface {emgmt|edata} [all|active|memory|backup]
```

### 구문 7

---

```
net show link [all|active|memory|backup]
```

### 구문 8

---

```
net show node {<ip address>|<hostname> }
```

### 구문 9

---

```
net show route [active|memory|backup]
```

지정하지 않으면 마지막 매개변수의 기본값은 active입니다.

### 구문 10

---

```
net show sockets
```

### 구문 11

---

```
net show status
```

상위 주제: [네트워크 명령](#)

## 네트워크 상호 검사 명령

---

네트워크 상호 검사(Netspect) 명령을 사용하면 네트워크 구성을 관리하고 DHCP 서버, DNS 서버, 게이트웨이, 라우트 정보를 네트워크에서 조회할 수 있습니다.

참고: 사용자 이름, 호스트 이름 또는 파일 이름에 예약어를 사용하지 마십시오. 예약어로는 ftp, sftp, export, ibm, port, user, file이 포함됩니다.

표 1.

명령어	조치	구문
netspect arp	사용자가 지정한 IP 주소에 대한 ARP 요청을 실행하고 ARP 회신 결과를 표시하거나 ARP 캐시 콘텐츠를 표시합니다.	netspect arp <lookup ipv4-address show cache>
netspect capture clean	모든 기존 패킷 캡처 파일을 삭제합니다.	netspect capture clean
netspect capture show	캡처된 패킷을 표시합니다. 이 명령을 실행하면 실행 중인 패킷 캡처도 중지됩니다.	netspect capture show
netspect capture start	<p>패킷 추적을 시작하고 gzip(.gz) 파일을 생성합니다. 패킷 추적은 네트워크 연결 오류를 디버깅하는 경우에 유용할 수 있습니다.</p> <p>한 번에 하나의 패킷 추적 캡처만 실행할 수 있습니다. 캡처는 &lt;CTRL + C&gt;를 사용하여 중지하거나 최대 패킷 수에 도달하기 전까지 계속 실행됩니다.</p> <p>참고: 패킷 크기 매개변수가 full로 설정된 캡처를 시작하면 (pktsize full) 더 적은 수의 패킷을 캡처할 수 있습니다.</p> <p>netspect export 명령을 사용하여 다른 호스트로 패킷 추적을 전송할 수 있습니다.</p> <p>참고: 패킷 추적을 캡처하면 이전 캡처를 겹쳐씹니다.</p>	<pre>netspect capture start [interface &lt;emgmt edata all&gt;] [pktsize &lt;header full&gt;] [find &lt;hostname network&gt;]</pre> <p>여기서</p> <ul style="list-style-type: none"> <li>hostname - 지정된 호스트 사이에서 캡처합니다(nn.nn.nn.nn).</li> <li>network - CIDR의 특정 네트워크 사이에서 캡처합니다.</li> </ul> <p>참고: 인터페이스 매개변수에 대해 emgmt 또는 edata를 지정하지 않으면 통합 어플라이언스는 기본값 all을 사용하고 두 인터페이스에 대해 캡처를 시작합니다.</p> <p><b>예제 1:</b> 두 인터페이스에서 패킷 헤더를 캡처합니다.</p> <pre>netspect capture start</pre> <p><b>예제 2:</b> edata에서 전체 패킷을 캡처합니다.</p> <pre>netspect capture start interface edata pktsize full</pre> <p><b>예제 3:</b> 특정 네트워크 사이에서 edata의 패킷 헤더를 캡처합니다.</p> <pre>netspect capture start interface edata find 123.12.0.0/24</pre> <p><b>예제 4:</b> 특정 호스트 사이에서 emgmt의 전체 패킷을 캡처합니다.</p> <pre>netspect capture start interface emgmt pktsize full find 123.12.0.123</pre>

명령어	조치	구문
netspect connect	이 명령은 사용자가 지정한 프로토콜을 사용하여 네트워크 호스트 포트에 대한 연결을 열고 연결 시도 결과를 표시합니다. 연결이 설정되면 이 명령을 리턴하기 전에 연결이 닫힙니다.	<pre>netspect connect host &lt;host-id&gt; &lt;protocol&gt; port &lt;port-num&gt;</pre> 여기서 <ul style="list-style-type: none"> <li>• host-id - 네트워크 호스트의 이름 또는 IP 주소.</li> <li>• protocol - 연결에 사용할 프로토콜. "tcp"여야 합니다.</li> <li>• port-num - 유효한 tcp 포트 번호.</li> </ul>
netspect dhcp	사용자가 지정한 네트워크 인터페이스에서 DHCP 서버에 대한 네트워크를 조회합니다. 또한 제공된 IP 주소 및 임대 조건 외에도 DHCP 서버에서 제공하는 네트워크 구성 정보를 표시합니다.	<pre>netspect dhcp interface &lt;emgmt edata&gt;</pre>
netspect dns	시스템 구성 DNS 서버에서 지정된 네트워크 호스트를 조회하고 (즉, 전방향 검색을 수행하여 지정된 호스트 이름의 IP 주소를 리턴하거나 역방향 검색을 수행하여 지정된 IP 주소의 호스트 이름을 리턴함) 검색 결과를 표시합니다.	<pre>netspect dns lookup host &lt;host-id&gt;</pre>
netspect export	FTP 서버로 패킷 캡처 파일을 내보냅니다. 패킷 추적 캡처에 대한 자세한 정보는 netspect capture start 명령을 참조하십시오.	<pre>netspect export &lt;ftp sftp&gt; host &lt;host-id&gt; [port &lt;number&gt;] [user &lt;user&gt;] [file &lt;filename&gt;]</pre> 여기서 <ul style="list-style-type: none"> <li>• host-id - 네트워크 호스트의 이름 또는 IP 주소.</li> <li>• port - 연결할 지정된 네트워크 호스트의 유효한 포트.</li> <li>• user - 호스트에 로그인하는 데 사용하는 사용자 이름을 지정합니다. 참고: sftp를 사용하는 경우 이 매개변수를 지정해야 합니다. 익명 로그인은 sftp에서 허용되지 않습니다.</li> <li>• filename - 대상 호스트에서 파일 경로.</li> </ul> <p><b>예제 1:</b> netspect export ftp.</p> <pre>netspect export ftp host 123.12.12.123</pre> <p><b>예제 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	지정된 IP 프로토콜 제품군에 대한 게이트웨이 및 라우트를 조회하고 조회/ping에 대해 게이트웨이가 응답하는지 여부를 보고합니다. IP 프로토콜 제품군은 ipv4(기본값) 또는 ipv6일 수 있습니다.	<pre>netspect gateways &lt;ip-protocol&gt;</pre>

명령어	조치	구문
netspect help	지정된 netspect 명령에 대한 도움말 텍스트를 표시합니다. 명령을 지정하지 않은 경우 모든 netspect 명령에 대한 도움말 요약이 표시됩니다.	netspect help <command>
netspect ifconfig	지정된 인터페이스에 대한 네트워크 인터페이스 구성 정보를 표시합니다. 네트워크 인터페이스 이름을 지정하지 않으면 모든 네트워크 인터페이스에 대한 인터페이스 구성 정보가 표시됩니다.	netspect ifconfig interface <emgmt  edata>
netspect ping	지정된 네트워크 호스트를 조회하려고 시도하며, 조회 시도 결과를 표시합니다.	netspect ping host <host-id>
netspect routes	지정된 IP 프로토콜 제품군에 대해 현재 구성된 라우트를 표시합니다. IP 프로토콜 제품군은 IPv4(아무 것도 지정하지 않은 경우 기본값) 또는 IPv6일 수 있습니다.	netspect routes [<ip-protocol>]
netspect summary	네트워크 구성 정보에 대한 요약을 제공합니다.	netspect summary
netspect traceroute	지정된 네트워크 호스트에 대한 라우트를 판별하려고 시도하며, 지정된 네트워크 호스트로 이동하기 위해 사용한 라우트 패킷을 표시합니다.	netspect traceroute host <host-id>

## 상태 명령

상태 명령을 사용하면 통합 어플라이언스 상태를 볼 수 있습니다.

표 1.

명령어	조치	구문
stat show all	디스크 사용량, 메모리 사용량, 가동 시간, 활성 프로세스와 같은 시스템 상태 정보를 표시합니다.	stat show all

## 시스템 명령

시스템 명령을 사용하면 통합 어플라이언스 및 커넥터의 라이선스 관리를 포함하여 통합 어플라이언스의 조작을 관리할 수 있습니다.

참고: 사용자 이름, 호스트 이름 또는 파일 이름에 예약어를 사용하지 마십시오. 예약어로는 ftp, sftp, ibm, port, user, file 이 포함됩니다.

표 1.

명령어	조치	구문
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명령어	조치	구문
system autoreboot	통합 어플라이언스에서 자동 다시 부팅을 사용하거나 사용 해제할 수 있습니다.  참고: 자동 다시 부팅을 사용 해제한 경우에도 Cast Iron® 펌웨어 업그레이드 중에 통합 어플라이언스는 다시 부팅됩니다.	system autoreboot <on   off>
system autoreboot setting	setting 매개변수를 사용하여 autoreboot 설정을 인쇄합니다.	system autoreboot setting
system clean	통합 어플라이언스의 시스템 상태를 지웁니다. system clean all 명령을 실행하면 IBM® DataPower® Cast Iron® 어플라이언스가 다시 부팅될 수도 있습니다.  all 옵션을 실행하면 디스크에서 고가용성 구성을 포함하여 모든 데이터 및 구성이 제거됩니다. 결과는 어플라이언스의 공장 출하 기본값 설정을 복원하는 것과 동일합니다. 다시 부팅한 후에 어플라이언스의 웹 관리 콘솔로 로그인하기 전에 라이선스 계약에 동의하는지 묻습니다.	system clean{[running][orchmon][deploy]} all  여기서 <ul style="list-style-type: none"> <li>• running - 현재 실행 중인 프로젝트 데이터를 제거합니다.</li> <li>• orchmon - 오케스트레이션 모니터링 데이터를 제거합니다.</li> <li>• deploy - 모든 프로젝트 및 구성을 제거합니다.</li> <li>• all - 어플라이언스를 공장 출하 기본값 설정으로 재설정합니다.</li> </ul>
system persist	통합 어플라이언스에서 디스크 캐시를 사용하거나 사용 해제합니다. 기본으로 권장되는 설정은 system persist on입니다.  지속성을 사용하는 경우 모든 요청된 데이터를 디스크에 완전히 쓸 수 있도록 쓰기가 동기화됩니다. 이 동작은 특히 데이터베이스와 같은 외부 트랜잭션 시스템에 액세스하는 경우 데이터 무결성을 보호하는 데 도움을 줍니다.  지속성을 사용하지 않으면 이 기능을 지원하는 어플라이언스에서 성능이 향상될 수 있습니다. 그러나 작업 진행상태를 유실할 위험이 있습니다.	system persist { on   off }
system persist setting	현재 시스템의 지속 설정(on 또는 off)을 표시합니다. system persist 명령을 사용하여 디스크 캐시의 사용 여부를 지정합니다.	system persist setting
system poweroff	모든 라우팅 서비스를 시스템 종료하고 통합 어플라이언스 전원을 끕니다. force 매개변수를 사용하는 경우 즉시 전원을 끕니다.	system poweroff

명령어	조치	구문
system reboot	<p>모든 라우팅 서비스를 시스템 종료하고 통합 어플라이언스를 다시 부팅합니다.</p> <p>참고:</p> <ul style="list-style-type: none"> <li>어플라이언스의 업그레이드/다시 부팅과 같이 변경하기 전에 런타임에 모든 프로젝트를 중지합니다. 어플라이언스 전원이 켜지면 프로젝트를 하나씩 시작합니다.</li> <li>시스템이 다시 부팅되면 저장하지 않은 네트워크 설정은 유실됩니다. 네트워크 설정을 통합 어플라이언스로 커밋하려면 net restart 명령을 사용합니다.</li> </ul>	system reboot
system restart	네트워크 연결성에 영향을 주지 않고 런타임 및 웹 관리 콘솔을 다시 시작합니다.	system restart
system show platform	통합 어플라이언스에 대한 정보(예: ROM 버전, 어플라이언스 플랫폼, 일련 번호, MAC 주소)를 표시합니다.	system show platform
system show status	HA 쌍에 있는 활성 통합 어플라이언스와 독립형 통합 어플라이언스에 대해 사용 가능합니다. 시스템, 네트워크, 런타임과 같은 컴포넌트의 가동 또는 중단 여부를 표시합니다.	<p>system show status</p> <p>예제 출력:</p> <pre>Appliance Status -----       System: Up       Network: Up       Runtime: Up</pre>
system show version	통합 어플라이언스에서 Cast Iron 운영 체제 버전을 표시합니다.	system show version

명령어	조치	구문
system update cios image	FTP 서버 기반 파일 또는 SFTP 서버 기반 파일의 이미지를 사용하여 통합 어플라이언스에서 Cast Iron 운영 체제를 업데이트합니다.	<pre>system update cios image from &lt;source&gt;</pre> <p>여기서 <i>source</i>는 FTP 서버 또는 SFTP 서버를 지정할 수 있습니다.</p> <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>참고: sftp를 사용하는 경우 <i>user</i> 매개변수를 지정해야 합니다. 익명 로그인은 sftp에서 허용되지 않습니다.</p>

## 시간 명령

시간 명령을 사용하면 통합 어플라이언스에서 날짜 및 시간을 설정하거나 동기화할 수 있습니다.

참고: 가상 어플라이언스에서 시간 차이를 방지하기 위해 호스트 및 게스트에서 NTP를 실행합니다. NTP를 실행하면 시스템 시간이 UTC로 설정됩니다. 가상 어플라이언스에서 시간을 재설정하는 데 time set clock 명령을 사용하지 마십시오.

표 1.

명령어	조치	구문

명령어	조치	구문
time set	<p>선택한 시간대와 상대적인 개별 시간 및 날짜 컴포넌트를 설정합니다. 통합 어플라이언스는 clock 매개변수와 함께 이 명령을 실행한 후에 다시 시작됩니다.</p> <p>특정 시간대에 대한 구문을 알지 못하는 경우 마지막 옵션을 선택하고 시간대 값을 지정하지 않습니다.</p>	<pre>time set { {   clock&lt;string&gt; }   { zone&lt;zone&gt;}   { zone} }</pre> <p>예제 1:</p> <ul style="list-style-type: none"> <li>time set clock&lt;string&gt;</li> <li>사용자 입력: time set clock Sat Jan 1 00:00:00 2005</li> </ul> <p>예제 2:</p> <ul style="list-style-type: none"> <li>time set zone&lt;zone&gt;</li> <li>사용자 입력: time set zone America/Los_Angeles</li> </ul>
time show	모든 시간 설정 또는 개별 시간 컴포넌트(현재 시간, 날짜 또는 시간대)를 표시합니다.	time show

## 고가용성 쌍에 대한 정보

고가용성(HA) 쌍은 두 개의 물리적 통합 어플라이언스를 함께 연결하는 통합 어플라이언스 구성으로, 이를 통해 이 두 통합 어플라이언스에서 데이터를 동기화하고 장애 복구 조작을 수행할 수 있습니다. HA 쌍을 구성하는 시스템은 동일한 MAC 및 IP 주소를 공유하므로, 단일 네트워크 ID를 작성합니다.

HA 쌍에는 하나의 활성 통합 어플라이언스와 하나의 대기 통합 어플라이언스가 있습니다. 오케스트레이션을 활동적으로 처리하는 통합 어플라이언스는 활성 시스템입니다. 자동으로 데이터를 동기화하고 장애 복구 조작을 수행하는 통합 어플라이언스는 대기 시스템입니다. HA 쌍을 구성하는 시스템이 처음에 서로 연결되어 있는 경우 즉시 서로 동기화하고 활성 역할을 맡은 시스템과 대기 역할을 맡을 시스템을 판별합니다. 초기 동기화 조작 중에 활성 시스템은 오케스트레이션을 처리할 수 있지만, HA 쌍이 완전히 동기화되기 전에는 장애 복구가 수행되지 않습니다. HA 쌍이 동기화되면 HA 쌍은 데이터를 지속하고 두 시스템 사이에서 이 데이터를 자동으로 동기화합니다.

활성 시스템에서 장애가 발생하면 대기 시스템이 인계 프로시저를 시작하고, 활성 시스템이 되며 다른 시스템이 중지했던 바로 그 위치에서 오케스트레이션 처리를 재개합니다. 인계 프로세스는 일반적으로 완료하는 데 1분 미만이지만, DHCP 응답 시간으로 인해 인계 프로세스가 느려질 수 있습니다. 인계 프로시저 중에 대기 시스템은 활성 시스템의 전원 사이클을 수행하여 활성 시스템이 오케스트레이션을 계속 처리하지 않도록 보장합니다. 대기 시스템이 성공적으로 장애가 발생한 활성 시스템의 전원 사이클을 마칠 수 있는 경우에만 활성 시스템이 됩니다. 대기 시스템이 활성 시스템의 전원 사이클을 마칠 수 없으면 대기 시스템은 IDLE 상태가 됩니다.

HA 장애 복구가 나타날 수 있는 장애의 예로는 다음 장애가 포함됩니다.

- CPU, 하드 드라이브, RAM, 마더보드, 네트워크 인터페이스, 전원 공급 장치, RAID 컨트롤러에서 생성된 하드웨어 장애.
- 통합 어플라이언스 런타임 장애(예: 처리 중 심각한 오류).
- 복제 포트 네트워크 인터페이스 문제 또는 복제 케이블 문제로 인해 발생하는 통합 어플라이언스 간 통신 장애.

활성 시스템이 대기 시스템과 연결이 끊어지면 활성 시스템은 비동기 데이터 커미트를 방지하고 대기 시스템이 인계 프로시저를 시작하는지 확인하기 위해 오케스트레이션 실행을 중지합니다. 대기 시스템이 활성 시스템의 전원 사이클을 마치지 못하면 활성 시스템이 오케스트레이션 처리를 재개합니다. 대기 시스템이 활성 시스템에 다시 연결할 수 있으면 대기 시스템은 활성 시스템과 동기화됩니다.

WMC를 통해 HA 쌍의 상태를 모니터하고 HA 쌍에서 통합 어플라이언스의 역할을 조작할 수 있습니다.

## 통합 어플라이언스 상태에 대한 정보

고가용성(HA) 쌍에서 통합 어플라이언스는 여러 상태 중 하나일 수 있습니다. 다음은 HA 쌍에서 통합 어플라이언스 상태입니다.

다음은 HA 쌍에서 통합 어플라이언스 상태입니다.

### ACTIVE\_1

활성 시스템이 대기 시스템과 통신할 수 없지만 활성 시스템이 계속 데이터를 처리합니다.

### ACTIVE\_2

활성 시스템이 데이터를 성공적으로 처리하고 피어 HA 시스템과 통신할 수 있습니다.

### IDLE

활성 시스템 또는 대기 시스템에서 하드웨어 또는 소프트웨어 문제점이 발생한 경우를 표시합니다. IDLE 상태는 HA 쌍에서 데이터 무결성을 보장하는 데 도움을 줍니다. IDLE은 항상 오류 상태인 것은 아닙니다.

예를 들어, 활성 시스템의 전원 사이클이 작동 중이면 활성 시스템은 IDLE 상태로 설정되고 대기 시스템의 상태를 확인할 수 있을 때까지 계속 이 상태로 남아 있습니다.

### STANDBY

대기 시스템이 활성 시스템과 성공적으로 동기화 중입니다.

### TRANSITIONING

다시 부팅 전이나 후 즉시 나타날 수 있습니다. 일반적으로 HA 쌍의 한 시스템은 일부 초기화를 수행하고 해당 피어를 찾은 후 적절한 상태로 전이할 수 있도록 다시 부팅한 후 충분한 기간만큼 이 상태를 유지합니다.

### UNKNOWN

피어 시스템이 사용 불가능한 경우 나타납니다. 예를 들어, 대기 시스템 전원이 꺼지면 활성 시스템은 피어 시스템(대기 시스템)의 상태가 UNKNOWN임을 명시합니다.

## 고가용성 쌍 구성에 대한 요구사항

고가용성(HA) 쌍에는 매우 특정한 하드웨어 구성이 필요하며 두 개의 통합 어플라이언스가 특정 요구사항을 만족해야 합니다.

HA 쌍으로 작동하려면 두 개의 통합 어플라이언스가 다음 요구사항을 만족해야 합니다.

- 두 통합 어플라이언스 모두 동일한 버전의 Cast Iron® 운영 체제를 사용해야 합니다. 하나의 통합 어플라이언스에 패치를 적용하면 동일한 패치가 HA 쌍의 다른 통합 어플라이언스에 자동으로 적용됩니다.
- 한 시스템의 복제 인터페이스는 다른 시스템의 대응하는 인터페이스에 케이블로 연결해야 합니다.
- 각 통합 어플라이언스의 관리 네트워크 포트는 동일한 서브넷에 연결해야 합니다.
- 각 통합 어플라이언스의 데이터 네트워크 포트는 동일한 서브넷에 연결해야 합니다.

참고: 고가용성 쌍 및 HCI(Hybrid Cloud Integration) 지원에 대한 참고 - HCI 기능을 사용하고 있으며, 두 개의 통합 어플라이언스를 HA로 변환하려는 경우 HCI 기능은 더 이상 지원되지 않습니다.

## 고가용성 쌍 설정

## 이 태스크 정보

다음 단계를 수행하여 고가용성 쌍을 설정합니다.

### 프로시저

1. 9005 어플라이언스를 사용하여 HA 쌍을 설정하는 경우 1a 단계의 프로시저를 수행하십시오. 9004 어플라이언스를 사용하는 경우 1b 단계의 프로시저를 수행하십시오.

참고: 고가용성은 동종의 어플라이언스를 연결해서만 획득할 수 있습니다. 서로 다른 어플라이언스(예: 9005 어플라이언스 및 9004 어플라이언스)를 연결하여 고가용성을 획득하려고 시도하지 마십시오.

- a. 9005 어플라이언스의 경우 - HA 쌍을 작성하려면 권장 직렬 콘솔 케이블 외에도 총 6개의 이더넷 케이블이 필요합니다. 두 개의 이더넷 케이블을 사용하여 두 어플라이언스의 복제 인터페이스를 직접 연결합니다.

```
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
```

다음과 같이 연결됩니다.

```
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
```

두 어플라이언스의 MGMT 및 Data 1을 적절한 관리 및 데이터 네트워크에 연결합니다. Data 2 및 Data 3은 연결되지 않은 상태여야 합니다.

- b. 9004 어플라이언스의 경우 - Cast Iron 어플라이언스에서 외부에 레이블이 지정된 네트워크 인터페이스는 서로 다른 내부의 인터페이스에 매핑됩니다.

```
External Label            Internal designation
MGMT                      emgmt
ETH0                      r1
ETH2                      edata
ETH1                      r2
```

두 개의 이더넷 케이블로 어플라이언스를 연결합니다.

```
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)
```

두 어플라이언스의 MGMT(emgmt) 및 ETH2(edata)는 적절한 관리 및 데이터 네트워크에 연결해야 합니다.

2. 초기 활성 피어로 설정할 어플라이언스를 선택하십시오. 두 번째 어플라이언스는 대기 피어가 됩니다.
3. 선택한 Cast Iron 어플라이언스에 직렬 콘솔을 연결하십시오. 활성 피어 어플라이언스에서 사용자 `admin`으로 Cast Iron 명령 인터페이스(CLI)에 로그인하십시오. 기본 `admin` 비밀번호는 `!n0r1t5@C`입니다. 다음과 유사한 명령 프롬프트를 얻어야 합니다. `none/Standalone>`.
4. 정적으로 지정된 IP 주소를 사용하도록 관리 및 데이터 네트워크를 구성하십시오. CLI에서 `net set interface` 명령 및 `net restart`를 순차적으로 실행하여 이를 수행합니다.

```
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. 문제점을 방지하려면 Cast Iron 어플라이언스를 최신 소프트웨어 버전으로 업그레이드해야 합니다. 소프트웨어는 IBM Fix Central 웹 사이트(<http://www.ibm.com/support/fixcentral/>)에서 찾을 수 있으며 업그레이드할 Cast Iron 어플라이언스에서 액세스할 수 있는 시스템으로 다운로드해야 합니다. Cast Iron 소프트웨어 업그레이드는 Cast Iron 웹 관리 콘솔(WMC) 또는 명령 인터페이스에서 실행할 명령을 통해 수행할 수 있습니다. 소프트웨어 레벨을 확인하려면 선택한 Cast Iron 어플라이언스에 직렬 콘솔을 연결하고 활성 피어 어플라이언스에 사용자 admin으로 Cast Iron 명령 인터페이스에 로그인합니다. 기본적으로 admin 비밀번호는 !n0r1t5@C입니다. 다음 명령을 실행하여 소프트웨어 레벨을 확인합니다.

```
none/standalone>system show version
```

업데이트가 필요한 경우 업데이트 명령을 실행하고 이때 필요한 ftp 위치 및 사용자 신임 정보를 제공합니다. 예를 들어, 다음과 같습니다.

```
none/standalone>system update cios image from ftp 10.10.17.166 user billbloggs file Downloads/fixcentral/castiron/myciupdate
```

업그레이드 프로세스 중에 어플라이언스가 다시 부팅됩니다.

6. 대기 어플라이언스에서 3 - 5단계를 반복하십시오. 업그레이드 중 임시로 어플라이언스에 두 IP 주소가 필요하므로 대기 피어에서 4단계를 수행해야 할 수도 있습니다.

참고: HA 설정을 완료한 후에는 HA 쌍에 대해 두 개의 IP 주소만 필요합니다(관리 및 데이터에 대해 하나씩). 이 단계에서 대기 피어에 사용된 IP 주소는 HA 설정을 완료하면 버립니다. 네트워크 환경의 다른 위치에서 사용될 수도 있습니다.

7. 두 피어에서 다음 명령을 실행하여 설치된 소프트웨어 레벨이 동일하고, 필요한 소프트웨어 레벨인지 확인하십시오.

```
none/standalone>system show version
```

8. 활성 어플라이언스를 HA로 구성하십시오.

```
none/standalone> system haconfig enable active
```

어플라이언스가 다시 부팅되고 활성 어플라이언스로 다시 시작됩니다.

9. 활성 어플라이언스에 로그인하십시오. 명령 프롬프트는 어플라이언스가 활성임을 표시합니다.

```
none/Active>
```

또는

```
appliance name/Active>
```

10. 직렬 콘솔을 선택한 대기 어플라이언스에 연결하고 대기 피어에 로그인한 후 다음 명령을 실행하여 이를 HA로 구성하십시오.

```
none/standalone> system haconfig enable standby
```

11. 다시 대기 어플라이언스로 로그인하십시오. 명령 프롬프트는 어플라이언스가 대기 상태임을 표시합니다.

```
none/Standby>
```

12. 활성 어플라이언스에서 HA 쌍의 상태를 확인하십시오.

```
appliance name/Active>ha show pairstatus
```

출력에는 어플라이언스가 고가용성인지를 표시합니다. 예를 들어, 다음과 같습니다.

```
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
```

이 예제에서 디스크의 동기화가 74%밖에 완료되지 않았으므로 HA 쌍은 고가용성이 아닙니다. 명령을 다시 실행하면 상태가 변경됩니다.

```
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. 동기화를 완료하면 필요한 경우 HA 쌍이 올바르게 역할을 전환할 수 있도록 확인하는 것이 중요합니다. `ha show pairstatus`를 사용하여 쌍이 고가용성이고, 네트워크 및 런타임 어플라이언스 서비스가 가동 상태로 보고되는지 확인하십시오. 현재 활성 상태인 어플라이언스의 일련 번호를 식별하십시오.

```
appliance name/Active> system show version
```

다음 명령을 실행하여 HA 쌍의 역할을 전환합니다.

```
appliance name/Active> ha switch
```

대기 피어가 인계를 수행하고 활성 상태가 됩니다. (일반적으로 이 프로세스에는 2분 정도가 소요됩니다.) 이전에 활성인 피어는 대기 피어가 됩니다. `system show version` 명령을 사용하여 활성 어플라이언스의 일련 번호를 보고 변경되었는지 확인합니다. "`ha show pairstatus`" 명령을 사용하여 HA 쌍이 고가용성 상태로 돌아갔는지 확인합니다.

14. HA 쌍이 한 방향으로 역할을 전환할 수 있는지 확인한 후에(예: 피어 A -> 피어 B) 다시 13단계를 수행하여 HA 쌍이 다른 방향(피어 B -> 피어 A)으로 역할을 전환할 수 있는지 확인하십시오.

참고: 고가용성 쌍 및 HCI(Hybrid Cloud Integration) 지원에 대한 참고 - HCI 기능을 사용하고 있으며, 두 개의 통합 어플라이언스를 HA로 변환하려는 경우 HCI 기능은 더 이상 지원되지 않습니다.

## 고가용성 쌍에 대한 작업

고가용성(HA) 쌍은 두 개의 통합 어플라이언스(활성 시스템 및 대기 시스템)로 구성됩니다. 그러면 이 HA 쌍은 단일 엔티티로 오케스트레이션을 처리할 수 있습니다.



대기 시스템이 장애 복구 작업을 수행해야 하는 경우 대기 시스템이 자동으로 활성 시스템과 데이터베이스를 동기화하는 동안 활성 시스템이 오케스트레이션을 처리합니다. 적절한 시나리오가 나타나는 경우 활성 시스템 및 대기 시스템은 역할을 전환할 수 있습니다.

WMC를 통해 HA 쌍에서 통합 어플라이언스의 상태나 역할을 변경할 수 있습니다.

- **고가용성 명령 실행**  
탐색 분할창에서 고가용성(HA) 쌍에 대한 명령을 실행할 수 있습니다.
- **고가용성 명령**  
이 명령은 고가용성(HA) 쌍에서 실행할 수 있습니다.

## 고가용성 명령 실행

탐색 분할창에서 고가용성(HA) 쌍에 대한 명령을 실행할 수 있습니다.

### 프로시저

1. 시스템 > 명령을 선택하십시오. 시스템 명령 페이지가 표시됩니다.
2. 명령 선택 드롭 다운 목록에서 명령을 선택하십시오. 드롭 다운 화살표를 클릭하여 명령 세부사항을 볼 수 있습니다.
3. 이동을 클릭하십시오.

상위 주제: [고가용성 쌍에 대한 작업](#)

## 고가용성 명령

이 명령은 고가용성(HA) 쌍에서 실행할 수 있습니다.

표 1.

시스템 제어 명령	설명
H A C o n n e c t	활성 및 대기 통합 어플라이언스가 어플라이언스 작업을 재개할 수 있도록 이 둘을 다시 연결합니다.

시스템 제어 명령	설명
H A D i S C O n n e c t	대기 시스템이 활성 시스템을 인계하지 않도록 임시로 HA 쌍 연결을 끊습니다. 이 조치를 통해 오케스트레이션 처리를 인터럽트하지 않고도 대기 시스템에서 필요한 하드웨어 또는 소프트웨어 유지보수를 수행할 수 있습니다. 이 조치를 선택하면 대기 시스템이 유휴 상태로 전환됩니다. 활성 시스템을 다시 부팅하거나 연결 조치를 실행하여 HA 쌍 사이의 통신을 다시 설정하고 데이터 동기화 및 장애 복구 조작을 재개합니다. 활성 시스템에서 유지보수를 수행하려면 전환 조치를 사용합니다. 활성 시스템이 대기 시스템이 됩니다. 이때 오케스트레이션 처리를 인터럽트하지 않고도 연결 끊기 조치를 사용하고 통합 어플라이언스 유지보수를 수행할 수 있습니다.
H A S w i t c h	HA 쌍의 통합 어플라이언스가 역할을 전환합니다. 활성 시스템은 대기 시스템이 되고, 대기 시스템은 활성 시스템이 됩니다.

상위 주제: [고가용성 쌍에 대한 작업](#)

## 고가용성 쌍 문제점 해결

활성 및 대기 시스템이 모두 IDLE(유휴) 상태로 설정되면 CLI를 사용하여 문제를 해결합니다.

### 프로시저

IDLE/IDLE 상태를 해결하려면 다음을 수행하십시오.

1. 활성 시스템 및 대기 시스템 모두의 CLI에서 `ha show lastaccess`를 입력하십시오.
2. 최신의 유효한 데이터 세트를 포함하고 있는 통합 어플라이언스를 판별하십시오. 일반적으로 최근 활동을 포함하는 통합 어플라이언스가 최신 시간소인을 생성합니다.
3. 최신의 유효한 데이터를 포함하도록 판별한 통합 어플라이언스에서 `ha active`를 입력하십시오.

### 결과

이 통합 어플라이언스는 이제 HA 쌍에서 활성 시스템이 됩니다.

고가용성 쌍에 대한 구체적인 기술 지원이 필요한 경우 IBM 기술 지원에 문의하십시오.

## 가상 어플라이언스에 대한 정보

이 안내서에서는 가상 어플라이언스 작성, 구성, 백업 및 복구에 대한 정보를 제공합니다. 가상 어플라이언스는 가상 환경에서 실행되며 게스트 운영 체제 및 선택적 애플리케이션 소프트웨어와 함께 패키징됩니다. 반면 통합 어플라이언스는 실제

시스템입니다.

Cast Iron® 제품은 가상 및 실제 환경에서 동일하게 수행됩니다. 하나의 통합 프로젝트를 실행 중인 단일 가상 머신 또는 여러 프로젝트를 실행 중인 다중 가상 머신에서 CIOS(Cast Iron Operating System)를 설치하여 데이터 센터 인프라를 작성할 수 있습니다. CIOS를 게스트 운영 체제로 사용하여 가상 어플라이언스를 작성하는 데 대한 정보는 [OVF 템플릿 배치](#)의 내용을 참조하십시오.

가상 어플라이언스 환경은 다음으로 구성되어야 합니다.

- 호스트 머신(데스크탑 컴퓨터 또는 서버).
- 가상화 기술이 사용된 CPU(예: Intel® VT-x 또는 AMD®-V. 일부의 경우 BIOS를 통해 가상화 기술을 사용으로 설정할 수 있어야 함).
- 60GB의 디스크 공간.
- 지원되는 구성: 1개 CPU, 4GB RAM 또는 2개 CPU, 8GB RAM. 선택된 구성을 실행하도록 충분한 실제 RAM이 있는지 또는 시스템 성능에 영향을 미칠 수 있는지 확인하십시오.
- VMware® ESX® 또는 ESXi 버전 5.0 이상. VMware 제품 및 ESX에 대한 자세한 정보는 <http://kb.vmware.com/selfservice/microsites/microsite.do>의 내용을 참조하고 *VMware ESX 및 ESXi 비교*를 클릭하여 보십시오.
- Cast Iron Hypervisor Edition 설치 파일(OVA 형식).
- VMware vCenter® Server, 4.0.0, 258672(선택사항).
- VMware VMotion® 및 VMware High Availability 추가 기능(선택사항). 설치에 추가되면 VMware 추가 기능은 가상 머신에서의 워크로드를 관리하고 조정하며, 가상 머신의 최적 데이터 센터 위치를 찾고, OS 관련 장애를 관리할 수 있습니다. 추가 기능 및 가상 환경 설정 팁에 대해서는 VMware 문서를 참조하십시오.

참고: 공유 스토리지(예: SAN)는 선택적입니다. 공유 스토리지는 VMware 기능(예: VMware VMotion 및 VMware High Availability)을 사용하도록 설정하는 데 필요합니다.

## IBM WebSphere Cast Iron Hypervisor Edition 시작하기

이 안내서에서는 IBM® WebSphere® Cast Iron® Hypervisor Edition(HVE)을 소개하고 가상화 기술에 대한 개요를 설명합니다. 가상화는 가상 어플라이언스가 가상 환경에서 실행되고 게스트 운영 체제 및 선택적 애플리케이션 소프트웨어와 함께 패키징된 하드웨어 가상화를 참조합니다.

가상화를 사용하면 동일한 실제 하드웨어 피스에서 운영 체제의 여러 인스턴스를 동시에 실행할 수 있습니다. 가상화는 *하이퍼바이저*라는 기술을 통해 수행됩니다. 하이퍼바이저를 사용하는 경우 동시에 실행 중인 여러 운영 체제가 하나의 실제 서버에서 동일한 실제 자원 세트(메모리, CPU, 디스크 및 네트워크)를 공유할 수 있습니다. 가상화 소프트웨어가 실행되는 실제 머신은 *호스트*이며 호스트에서 실행되는 가상 머신은 *게스트*입니다.

Cast Iron 제품은 가상 및 실제 환경에서 동일하게 수행됩니다. 하나의 통합 프로젝트를 실행 중인 단일 가상 머신 또는 여러 프로젝트를 실행 중인 다중 가상 머신에서 CIOS(Cast Iron Operating System)를 설치하여 데이터 센터 인프라를 작성할 수 있습니다. CIOS를 게스트 운영 체제로 사용하여 가상 어플라이언스를 작성하는 데 대한 정보는 [OVF 템플릿 배치](#)의 내용을 참조하십시오.

- [요구사항](#)

## 요구사항

이 절에서는 가상 어플라이언스 환경을 구축하는 데 필요한 요구사항 및 자원에 대해 간략하게 설명합니다. 자원 간 맵핑에 대한 자세한 정보는 [자원 맵핑](#)의 내용을 참조하십시오.

요구사항:

- 호스트 머신(데스크탑 컴퓨터 또는 서버).
- 가상화 기술이 사용된 CPU(예: Intel® VT-x 또는 AMD®-V. 일부의 경우 BIOS를 통해 가상화 기술을 사용으로 설정할 수 있어야 함).
- 60GB 디스크 공간.
- 지원되는 구성: 1 CPU, 4GB RAM 또는 2 CPU, 8GB RAM. 선택된 구성을 실행하도록 충분한 실제 RAM이 있는지 또는 시스템 성능에 영향을 미칠 수 있는지 확인하십시오.
- VMware® ESX® 또는 ESXi 버전 5.0 이상. VMware 제품 및 ESX에 대한 자세한 정보는 <http://kb.vmware.com/selfservice/microsites/microsite.do>의 내용을 참조하고 *VMware ESX 및 ESXi 비교*를 클릭하여 보십시오.
- Cast Iron® Hypervisor Edition 설치 파일(OVA 형식).
- VMware vCenter® Server, 4.0.0, 258672(선택사항).
- VMware VMotion® 및 VMware High Availability 추가 기능(선택사항). 설치에 추가되면 VMware 추가 기능은 가상 머신에서의 워크로드를 관리하고 조정하며, 가상 머신의 최적 데이터 센터 위치를 찾고, OS 관련 장애를 관리할 수 있습니다. 추가 기능 및 가상 환경 설정 팁에 대해서는 VMware 문서를 참조하십시오.

참고: 공유 스토리지(예: SAN)는 선택적입니다. 공유 스토리지는 VMware 기능(예: VMware VMotion 및 VMware High Availability)을 사용하도록 설정하는 데 필요합니다.

상위 주제: [IBM WebSphere Cast Iron Hypervisor Edition 시작하기](#)

## 자원 맵핑

이 절에서는 가상 머신을 프로비저닝할 때 가상 및 실제 자원 간 맵핑에 대한 정보를 제공합니다.

새 가상 머신을 인스턴스화하여 Cast Iron HVE를 실행하는 경우 먼저 가상 머신의 크기를 선택해야 합니다. [요구사항](#)에 따르면 지원되는 크기는 다음과 같습니다.

- 1 CPU, 4GB RAM, 최소 60GB 디스크 공간(표준 구성).
- 2 CPU, 8GB RAM, 최소 60GB 디스크 공간(고급 구성).

위의 자원 크기는 실행 중인 가상 머신에 표시될 수 있는 자원 양을 참조합니다. 표준 구성의 경우 1 CPU 및 60GB 디스크 공간은 가상 머신이 볼 수 있어야 하는 가상 CPU 수 및 디스크 공간 크기를 참조합니다. 가상화를 사용하면 다른 운영 체제 인스턴스를 실행하는 여러 다른 가상 머신이 동일한 실제 자원을 공유하기 때문에 실제 호스트 환경의 크기를 실행 중인 가상 머신의 수로 지정하는 것이 중요합니다.

## 메모리

또한 호스트 환경의 크기 뿐 아니라 실제 호스트의 크기를 실행 중인 게스트에 필요한 메모리 크기로 적절하게 지정하는 것도 중요합니다. 우수 사례에서는 호스트의 실제 메모리가 동시에 실행 중인 게스트에 대해 설정된 메모리 합보다 더 커야 함을 설명합니다. 예를 들어 표준 및 고급 구성 둘 다를 실행하도록 실제 호스트 크기를 지정하는 경우 호스트 크기가  $4 + 8 + 2 \Rightarrow$  최소 14GB RAM이어야 합니다. (하이퍼바이저 프로세스를 위해 추가로 2GB의 RAM을 권장함)

## CPU

가상 CPU를 실제 CPU에 맵핑하는 경우 동시에 실행되는 가상 CPU당 하나의 실제 CPU 코어가 있어야 하며 하이퍼바이저 프로세스를 위해 최소한 하나 이상의 코어가 버퍼로 있어야 합니다. 예를 들어 표준 및 고급 구성 둘 다를 실행하도록 실제 호스트 크기를 지정하는 경우 호스트 크기가  $1 + 2 + 1 = 4$  실제 CPU 코어 수여야 합니다. 대부분의 실제 CPU가 멀티코어이므로 하나의 쿼드코어 CPU가 있는 실제 호스트는 구성을 실행하기에 충분합니다. Cast Iron HVE가 64비트 커널을 사용하므로 호스트는 가상화 기술 지원이 사용 가능하고 사용으로 설정된 실제 CPU를 가지고 있어야 합니다(예: Intel VT-x 또는 AMD AMD-V). 일부의 경우 BIOS를 통해 가상화 기술을 사용으로 설정할 수 있어야 합니다.

## 디스크

일반적으로 디스크는 가상화된 환경에서 가격이 가장 싼 자원입니다. 우수 사례에서는 나중에 디스크를 확장할 때 성능에 문제가 생기지 않도록 가상 머신이 실제 디스크에 필요한 디스크 크기를 사전 할당해야 함을 설명합니다. 디스크 크기를 지정할 때 동시에 여러 개의 일시중단된 가상 머신을 저장하여 하나로 인스턴스화하려면 디스크를 현저하게 크게 지정해야 합니다. 예를 들어 표준 및 고급 구성 둘 다를 실행하도록 실제 호스트 크기를 지정하는 경우 디스크의 최소 크기 요구사항은  $60 + 60 + 5 = 125\text{GB}$ 입니다. (나머지 5GB의 공간은 하이퍼바이저 프로세스용임) 그러나 우수 사례에서는 고객 요구가 증가함에 따라 더 많은 비활성 가상 머신을 저장할 수 있도록 더 큰 디스크가 있는 실제 호스트를 사용합니다.

## 어플라이언스 패치 업로드

어플라이언스 패치를 업로드하여 최신 버전의 Cast Iron® 운영 체제를 업그레이드하고 최신 기능을 액세스할 수 있습니다.

### 시작하기 전에

중요사항: SAP 프로젝트를 사용하는 경우 SAP 64비트 라이브러리를 설치했는지 확인해야 합니다. WebSphere® Cast Iron Hypervisor Edition 버전 7로 업그레이드하기 전에 SAP 32비트 라이브러리를 제거하십시오. 설치된 SAP 32비트 라이브러리가 있으면 WebSphere Cast Iron Hypervisor Edition 버전 7로 업그레이드할 수 없습니다.

### 이 태스크 정보

WMC(Web Management Console)에서 업그레이드 이미지를 어플라이언스에 업로드하여 최신 버전의 Cast Iron 운영 체제로 업그레이드하십시오. 이 업그레이드 프로세스는 필요한 파일만 바꾸거나 추가하고, 어떤 데이터도 영구 삭제하지 않습니다. WMC는 업그레이드 프로시저 동안 실행 중인 프로젝트를 강제로 배치 해제하고 현재 어플라이언스에서 실행 중인 활성 오케스트레이션 작업을 중지합니다. 어플라이언스가 업그레이드되면 실행 취소하거나 이전 버전으로 롤백할 수 없습니다.

참고: 또한 명령 인터페이스(CLI)를 통해 업그레이드를 적용할 수도 있습니다. 자세한 정보는 *CLI 참조서*에서 system update 명령을 참조하십시오.

### 프로시저

1. Fix Central에서 WebSphere Cast Iron Hypervisor 펌웨어 업그레이드 파일(type = vcrypt2)을 다운로드하십시오. <http://www.ibm.com/support/fixcentral/>
2. 어플라이언스 업그레이드 이미지 파일을 Windows 워크스테이션에서 액세스할 수 있는 위치에 다운로드하십시오 (예: C:\Desktop).
3. WMC를 사용하여 Cast Iron 운영 체제를 실행 중인 어플라이언스에 로그인하십시오.
4. WMC에서 설정 > 설치/업그레이드를 선택하십시오. 어플라이언스 및 라이브러리 설치/업그레이드 패널이 표시됩니다.
5. 어플라이언스 업그레이드 섹션에서 업그레이드 설치를 클릭하십시오. 업그레이드 마법사가 표시됩니다.
6. 다음을 클릭하십시오.
7. 실행 중인 프로젝트를 확인하려면 다음을 클릭하십시오. 프로젝트가 어플라이언스에서 실행 중인 경우 업그레이드 마법사는 계속하기 전에 프로젝트를 중지했는지 확인합니다. 계속하려면 계속을 클릭하십시오. 어플라이언스에서 실행 중인 프로젝트가 없는 경우 초록색 확인표시가 표시됩니다. 다음을 클릭하십시오.
8. 텍스트 필드에 어플라이언스 업그레이드 이미지 파일의 경로를 지정하거나 찾아보기를 클릭하여 어플라이언스 업그레이드 이미지 파일을 찾으십시오.
9. 다음을 클릭하십시오. 업그레이드 패널에서 다음 메시지가 표시됩니다. 업로드 진행상태. 잠시 기다리십시오. 진행 표시줄이 업로드 상태를 표시합니다. 업로드가 완료되면 WMC가 업로드 유효성을 검증합니다.
10. 패치 버전 번호를 확인하고 설치를 클릭하십시오.
11. 실행 중인 오케스트레이션을 중지했는지를 확인하는 일련의 대화 상자가 표시됩니다. 확인을 클릭하고 또 확인을 클릭하십시오. 어플라이언스 업그레이드 패널이 표시됩니다. 업그레이드가 완료된 후 5분 이내에 어플라이언스가 재

- 부팅되고 어플라이언스 업그레이드 패널에 다음 메시지가 표시됩니다. 설치가 완료되었습니다! 잠시 기다리십시오. 어플라이언스가 재부팅됩니다. 어플라이언스에 대한 콘솔 창이 열리면 재부팅 메시지가 표시됩니다.
12. WMC를 사용하여 어플라이언스에 로그인하십시오. 브라우저의 새로 고치기 단추를 클릭해야 할 수 있습니다.

## 다음에 수행할 작업

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WMC를 사용하여 이 업그레이드 프로시저에서 배치 해제한 프로젝트를 다시 배치하십시오. Cast Iron 운영 체제가 설치된 Studio 호환 가능 버전으로 업그레이드하십시오. 어플라이언스 및 Studio 호환성에 대한 자세한 정보는 *Cast Iron 운영 체제 릴리스 Notes*® 또는 *Cast Iron Studio 릴리스 정보*에서 호환성 절을 참조하십시오. Studio 업그레이드 프로시저에 대해서는 *Studio 설치*를 참조하십시오.

## OVF 템플릿 배치

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설치된 CIOS 및 VMwareTools를 사용하여 가상 머신을 작성하는 OVF 템플릿을 배치할 수 있습니다. OVF 템플릿이 배치되면 CLI를 통해 실제 통합 어플라이언스를 관리하는 것과 같이 vSphere Client Console 탭에서 가상 어플라이언스를 관리할 수 있습니다.

## 시작하기 전에

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참고: 이 절의 단계는 VMware에만 적용됩니다. OVF 템플릿을 배치한 후에 vSphere 클라이언트에서 VMware 도구 상태를 “설치되지 않음”으로 표시할 수도 있음을 주의하십시오. 그러나 OVF 템플릿이 제대로 배치되면 VMware 도구가 가상 머신에 설치됩니다.

## 프로시저

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1. CIOS OVA 파일의 로컬 사본을 다운로드하십시오. 가상 머신이 상주하는 호스트 머신에서 액세스 가능한 스토리지 디바이스에 OVA를 다운로드할 것을 권장합니다.
2. VMware Infrastructure Client 탐색 분할창에서 CIOS를 설치할 가상 머신을 선택하십시오.
3. 파일 > OVF 템플릿 배치를 선택하십시오. OVF 템플릿 배치 마법사가 표시됩니다.
4. 4. OVF 템플릿을 배치하고 OVF 템플릿의 위치를 지정할 옵션을 선택하고 다음을 클릭하십시오.
  - 파일로부터 배치 - 소스 OVF 템플릿이 로컬 파일 시스템에 있는 경우 이 옵션을 선택하십시오.
  - URL로부터 배치 - 인터넷에서 OVF 템플릿을 다운로드하려면 이 옵션을 선택하고 URL을 입력하십시오.
5. 표시되는 템플릿 세부사항을 확인하고 다음을 클릭하십시오.
6. 배치된 템플릿의 이름 및 위치를 확인하고 다음을 클릭하십시오.
7. 구성 옵션을 선택하고 다음을 클릭하십시오.
  - 표준 - 1CPU, 4GB RAM
  - 고급 - 2CPU, 8GB RAM호스트/클러스터 페이지가 표시됩니다.
8. 배치된 템플릿을 실행할 호스트 또는 클러스터를 선택하고 다음을 클릭하십시오.
9. 자원 풀을 선택하고 다음을 클릭하십시오.
10. 가상 머신 파일을 저장할 데이터 저장소를 선택하고 다음을 클릭하십시오.
11. 대상 네트워크 열의 드롭 다운 목록에서 선택하여 OVF 템플릿에서 사용되는 네트워크를 인벤토리의 네트워크에 매핑하십시오. 그런 다음 다음을 클릭하십시오.
12. 지정된 옵션을 확인하고 완료를 클릭하십시오. OVF 템플릿이 가상 머신에 배치됩니다.

## 다음에 수행할 작업

---

OVF 템플릿이 제대로 배치된 후에는 하드 디스크 1 또는 하드 디스크 2의 설정을 수정하지 마십시오.

## DHCP 주소 지정을 사용하도록 구성

DHCP 서버 주소 지정을 사용하도록 네트워크에서 가상 머신을 구성할 수 있습니다.

### 프로시저

1. 가상 머신 콘솔을 사용하여 기본 사용자 이름 및 비밀번호로 가상 머신에 로그인하십시오.

- localhost 로그인: admin
- 비밀번호: !n0r1t5@C

다음 프롬프트가 표시됩니다.

```
localhost>
```

참고: vSphere Client 터미널의 키보드 맵핑은 US 레이아웃을 사용합니다. 워크스테이션 키보드가 다른 레이아웃을 사용하는 경우 로그인이 실패할 수 있습니다.

2. 다음 인터페이스에 대한 DNS 서버의 호스트 이름 및 IP 주소를 지정하십시오.

- 데이터 인터페이스에 대한 호스트 이름 및 IP 주소
- 관리 인터페이스에 대한 호스트 이름 및 IP 주소

데이터 인터페이스는 네트워크의 엔드포인트와 통신하기 위해 런타임 중에 통합 어플라이언스에 의해 사용됩니다 (예: 데이터베이스 서버). 관리 인터페이스를 사용하여 WMC로부터의 통합 어플라이언스와 통신합니다.

3. 다음 설정을 입력하십시오.

- 데이터 인터페이스에 대한 MAC 주소
- DNS 서버에서 데이터 인터페이스에 지정된 호스트 이름
- 관리 인터페이스에 대한 MAC 주소
- DNS 서버에서 관리 인터페이스에 지정된 호스트 이름
- DNS 서버에서 BMC 인터페이스에 지정된 호스트 이름

4. 네트워크 설정 적용: localhost> net restart

5. 다음 명령을 반복적으로 실행하여 시스템 상태를 모니터하십시오. localhost> system show status 네트워크 설정이 적용되면 다음 상태를 통해 네트워크 상태가 전이됩니다.

- 작동
- 중지 중
- 시작 중
- 작동

6. 네트워크 상태 모니터: localhost> net show status. 현재 활동 상태가 >Monitoring network인 경우 네트워크 설정이 적용됩니다.

7. 다음 명령을 사용하여 데이터 및 관리 인터페이스 네트워크 설정을 확인하십시오. localhost> net show active

8. 올바른지 않은 주소를 재설정하십시오. net show all을 실행하는 경우 EData가 사용 안함으로 표시됩니다.

9. WMC를 사용하여 관리 인터페이스에 대한 연결을 확인하십시오.

## 정적 주소 지정을 사용하도록 구성

정적 주소 지정을 사용하도록 네트워크에서 가상 머신을 구성할 수 있습니다.

### 이 태스크 정보

지정된 네트워크 설정은 net restart 명령을 실행하는 경우에만 통합 어플라이언스에 커밋됩니다. 네트워크 설정이 커밋되기 전에 시스템 재부팅이 수행되면 이러한 네트워크 설정이 유실됩니다.

1. 가상 머신 콘솔을 사용하여 기본 사용자 이름 및 비밀번호로 가상 머신에 로그인하십시오.

- localhost 로그인: admin
- 비밀번호: !n0r1t5@C

다음 프롬프트가 표시됩니다.

```
localhost>
```

2. 다음 인터페이스에 대한 DNS 서버의 호스트 이름 및 IP 주소를 지정하십시오.

- 데이터 인터페이스에 대한 호스트 이름 및 IP 주소
- 관리 인터페이스에 대한 호스트 이름 및 IP 주소

데이터 인터페이스는 네트워크의 엔드포인트와 통신하기 위해 런타임 중에 통합 어플라이언스에 의해 사용됩니다 (예: 데이터베이스 서버). 관리 인터페이스를 사용하여 WMC로부터의 통합 어플라이언스와 통신합니다.

3. 관리 인터페이스의 호스트 이름 설정: localhost> net set hostname static *appliancehostname*. 이 프로시저의 끝에 호스트 머신이 다시 시작되면 프롬프트가 다음 설정으로 변경됩니다.

```
hostname>
```

4. DNS 도메인 이름 설정: localhost> net set domain static *domain-name*

5. DNS 이름 서버 설정: localhost> net set nameserver static *dns-ipaddress*

6. 데이터 인터페이스의 네트워크 주소 설정: localhost> net set interface *edata* address *ipaddress* mask *netmask* bcast *broadcast*

7. 관리 인터페이스의 네트워크 주소 설정: localhost> net set interface *edata* address *ipaddress* mask *netmask* bcast *broadcast*

8. 게이트웨이 주소 설정: localhost> net set gateway static *ip-address* emgmt

9. 도메인 목록 검색 사용 안함: localhost> net set search none

10. 환경에 대한 적절한 설정을 위해 네트워크 시간 서버 설정:

- 네트워크에 시간 서버가 있는 경우: localhost> net set ntp static *ntp-address*
- 네트워크에 시간 서버가 없는 경우: localhost> net set ntp none

11. 설정 검토: localhost> net show memory

12. 네트워크 설정 적용: localhost> net restart

13. 다음 명령을 반복적으로 실행하여 시스템 상태를 모니터링하십시오. localhost> system show status 네트워크 설정이 적용되면 다음 상태를 통해 네트워크 상태가 전이됩니다.

- 작동
- 중지 중
- 시작 중
- 작동

참고: 네트워크 설정이 적용되는 경우 런타임이 중지될 수 있습니다.

14. 네트워크 상태 모니터: hostname> net show status 현재 활동 상태가 >Monitoring network인 경우 네트워크 설정이 적용됩니다.

15. 다음 명령을 사용하여 입력된 설정 확인: hostname> net show active

16. 올바르게 않은 주소를 재설정하십시오. net show all을 실행하는 경우 EData가 사용 안함으로 표시됩니다.

17. 로그 아웃: hostname> exit 세션이 닫힙니다.

## 가상 어플라이언스 백업 및 복구

VMware Consolidated Backup 추가 기능을 구매하여 가상 환경에 대한 재해 복구 시나리오를 다루거나 가상 어플라이언스의 기능을 내보내거나 가져올 수 있습니다.

VMware Consolidated Backup에 대한 자세한 정보는 VMware Consolidated Backup 안내서를 참조하십시오.



다음 주제에서는 가상 어플라이언스 저장소를 내보내고 가져오는 방법에 대해 설명하고 이 조작에 영향을 받는 가상 어플라이언스의 컴포넌트에 대한 자세한 설명을 제공합니다.

- **가상 어플라이언스 저장소 내보내기**

프로젝트 저장소를 내보내어 가상 어플라이언스의 백업을 작성합니다. WMC에서 다른 위치로 모든 프로젝트 구성 및 사용자 설정을 내보낼 수 있습니다. 저장소를 내보낼 때 가상 어플라이언스 시스템 로그는 내보내지지 않습니다.

- **가상 어플라이언스 저장소 가져오기**

저장소를 가져올 때 WMC는 모든 기존 프로젝트, 프로젝트 구성 및 작업 히스토리를 삭제합니다. 가상 어플라이언스 시스템 로그는 영향을 미치지 않는 상태로 남아 있습니다. 저장소를 가져오면 이전 저장소로 롤백할 수 없습니다.

## 가상 어플라이언스 저장소 내보내기

---

프로젝트 저장소를 내보내어 가상 어플라이언스의 백업을 작성합니다. WMC에서 다른 위치로 모든 프로젝트 구성 및 사용자 설정을 내보낼 수 있습니다. 저장소를 내보낼 때 가상 어플라이언스 시스템 로그는 내보내지지 않습니다.

### 이 태스크 정보

---

실행 중인 프로젝트 구성과 함께 저장소를 내보낼 수 있습니다. 그러나 이 저장소를 가져오는 경우 프로젝트 구성은 배치되지 않은 상태가 됩니다.

WMC를 사용하여 가상 어플라이언스 저장소를 내보내십시오.

참고: 가상 어플라이언스 디스크의 암호화는 가상 어플라이언스의 VMware 지정 UUID를 사용합니다. 복제/복사 조작을 통해 새 UUID를 얻게 되므로 결과적으로 가상 어플라이언스 복제 및/또는 복사 조작은 기능이 없는 복제/복사 조작이 됩니다. 백업 어플라이언스를 작성하려면 동일한 구성(예: 표준 또는 고급)을 사용하여 새 가상 어플라이언스를 작성하고 CLI 명령 `config save/load`를 사용하여 가상 어플라이언스 설정 및 WMC 저장소 기능을 가져오기/내보내기하십시오. (그러나 해당 조작은 변수와 같은 데이터, 디스크에 저장된 데이터 또는 오케스트레이션 프로세스 파트의 메모리에 있는 데이터는 내보내기/가져오기를 수행하지 않음).

참고: VMotion에는 가상 어플라이언스를 새 호스트로 마이그레이션하는 데 유효한 조작이 남아 있습니다.

### 프로시저

---

1. 배치 탭에서 저장소 내보내기를 선택하십시오. 파일 다운로드 창이 표시됩니다.
2. 저장을 클릭하십시오. 다른 이름으로 저장 창이 표시됩니다.
3. 내보낸 저장소를 저장할 위치를 지정하십시오.
4. 저장을 클릭하십시오. WMC가 저장소 사본을 .tar.gz 파일로 내보냅니다.

상위 주제: [가상 어플라이언스 백업 및 복구](#)

## 가상 어플라이언스 저장소 가져오기

---

저장소를 가져올 때 WMC는 모든 기존 프로젝트, 프로젝트 구성 및 작업 히스토리를 삭제합니다. 가상 어플라이언스 시스템 로그는 영향을 미치지 않는 상태로 남아 있습니다. 저장소를 가져오면 이전 저장소로 롤백할 수 없습니다.

### 시작하기 전에

---

저장소를 가져오려면 먼저 VMC에서 모든 프로젝트 구성을 중지하고 배치 해제해야 합니다. WMC가 저장소를 가져오면 모든 프로젝트 구성이 배치 해제 상태가 됩니다. CIOS 버전 3.7.1에서 6.x로 저장소를 가져올 수 있습니다.

참고: 가상 어플라이언스에서 다른 어플라이언스로 저장소를 가져오려면 먼저 저장소를 가져올 가상 어플라이언스의 전원을 꺼야 합니다.

## 이 태스크 정보

---

다음 단계에서 모든 프로젝트를 배치 해제한 다음 WMC를 사용하여 가상 어플라이언스 저장소를 가져옵니다.

## 프로시저

---

1. 배치 탭에서 프로젝트를 선택하십시오. 모든 프로젝트 구성이 표시됩니다.
2. 모든 프로젝트 구성이 배치 해제 상태인지 확인하십시오.
3. 프로젝트가 배치 해제 상태가 아닌 경우 프로젝트 구성 링크를 클릭한 다음 프로젝트 구성을 중지하고 배치 해제하십시오.
4. 배치 탭에서 저장소 가져오기를 선택하십시오. 저장소 가져오기 페이지가 표시됩니다.
5. 가져올 저장소 파일을 지정하거나 찾아보기를 클릭하여 저장소 파일을 검색하십시오.
6. 다음 가져오기 옵션 중 하나를 선택하십시오.
  - 프로젝트 및 사용자 설정 - 선택한 저장소 파일의 모든 콘텐츠를 가져옵니다. 모든 프로젝트를 배치 해제 상태로 가져옵니다.
  - 프로젝트만 - 선택한 저장소 파일에서 프로젝트 정보만 가져옵니다. 모든 프로젝트를 배치 해제 상태로 가져옵니다.
  - 사용자 설정만 - 선택한 저장소 파일에서 사용자 설정 정보만 가져옵니다. 사용자 설정 정보에는 네트워크 구성, 사용자 및 그룹, 라이선스, 작업 로그 매개변수, 로그 레벨, 알림, 작동 중지 시간 규칙 및 비밀번호가 포함됩니다.
7. 가져오기를 클릭하십시오. 경고가 표시됩니다.
8. 가져오기를 진행하려면 가져오기를 클릭하십시오. 가져오기가 완료되면 가상 어플라이언스가 다시 시작되고 WMC 로그인 창이 표시됩니다.
9. 가상 어플라이언스에 로그인하십시오.
10. 배치 탭에서 프로젝트를 선택하여 적절한 모든 프로젝트 구성을 배치하십시오.

상위 주제: [가상 어플라이언스 백업 및 복구](#)

## WebSphere Cast Iron Docker 컨테이너

---

Docker 컨테이너는 서로 다른 플랫폼에서 솔루션을 통합 및 배치하는 데 도움을 줍니다.

Cast Iron Docker 컨테이너는 Ubuntu 서버에서 Cast Iron 환경(Cast Iron 어플라이언스 없이)을 배치하는 데 도움을 줍니다. 이를 통해 물리적 어플라이언스 또는 VMware 인스턴스가 필요한 상황을 극복할 수 있습니다.

- [Cast Iron Docker 컨테이너 시작하기](#)
- [Cast Iron Docker 이미지 작성](#)
- [Docker 이미지를 사용하여 Cast Iron 컨테이너 작성](#)
- [Cast Iron 컨테이너에 대한 작업](#)
- [Cast Iron 컨테이너에서 Cast Iron 인스턴스 업그레이드](#)
- [Cast Iron 어플라이언스에서 Cast Iron 컨테이너로 프로젝트 마이그레이션](#)
- [Cast Iron 컨테이너에서 문제점 해결](#)

## Cast Iron Docker 컨테이너 시작하기

---

다음은 WebSphere Cast Iron Docker 컨테이너 이미지를 작성하고 Docker 컨테이너로 배치하기 위한 최소 요구사항입니다.

요구사항

- Ubuntu 14.04 64비트 서버
- 32GB RAM
- 8개 CPU
- Ubuntu 14.04에서 Docker 패키지 버전 1.8
- 100GB HDD 공간
- 2개 이더넷 포트(Cast Iron Management Console 및 Cast Iron Data에 대해 각각 하나씩)

#### 지원 환경

- 독립형 사내 Ubuntu 서버
- 클라우드에서 Ubuntu(예: Soft Layer, Amazon EC 2, Microsoft Azure)

상위 주제: [WebSphere Cast Iron Docker 컨테이너](#)

## Cast Iron Docker 이미지 작성

---

### 시작하기 전에

---

- Cast Iron Docker tar 파일을 수정 센터(passport)에서 다운로드합니다.
- Docker 패키지가 있는 Ubuntu 서버로 다운로드한 Cast Iron Docker tar 파일을 전송합니다.

### 이 태스크 정보

---

이 태스크를 사용하여 Cast Iron Docker tar 파일을 통해 Cast Iron Docker 이미지를 작성합니다.

### 프로시저

---

1. Ubuntu 서버에서 다음 명령을 사용하여 tar 파일의 압축을 푸십시오.

```
tar -xzf <file name>.tar.gz
```

2. 압축을 푼 폴더로 이동하고 castiron\_docker 폴더를 찾으십시오.
3. 다음 명령을 실행하여 Docker 이미지를 작성하십시오.

```
docker build --no-cache -t castironv7510/<CI build number> castiron_docker
```

예를 들어, 다음과 같습니다. `docker build --no-cache -t castironv7510/20160302-1536 castiron_docker`

### 결과

---

Cast Iron Docker 컨테이너를 작성했습니다.

참고:

Docker 이미지가 성공적으로 작성된 경우 <docker image ID>가 빌드됨과 같은 메시지가 표시됩니다. `docker images` 명령을 실행하여 이미지를 확인할 수 있습니다.

상위 주제: [WebSphere Cast Iron Docker 컨테이너](#)

## Docker 이미지를 사용하여 Cast Iron 컨테이너 작성

---

## 시작하기 전에

---

적절한 Cast Iron Docker 이미지가 작성되었으며 배치 시 사용 가능한지 확인합니다.

## 이 태스크 정보

---

이 태스크를 사용하여 Docker 이미지에서 새 Cast Iron 컨테이너를 작성합니다.

참고: 컨테이너가 Docker 호스트의 네트워크 자원을 사용하는 경우 단일 Docker 호스트당 하나의 Cast Iron 컨테이너만 작성하여 사용할 수 있습니다.

## 프로시저

---

Docker 이미지가 있는 Ubuntu 서버에서 다음 명령을 실행하십시오.

```
docker run --net=host --pid=host -t -i -d <cast iron docker image ID>
```

예를 들어, 다음과 같습니다. `docker run --net=host --pid=host -t -i -d castironv7510/20160302-1535`. 여기서 `castironv7510/20160302-1535`는 Cast Iron Docker 이미지 ID입니다.

## 결과

---

위 명령을 실행할 때 Cast Iron 컨테이너는 컨테이너 ID와 함께 작성됩니다. Cast Iron 컨테이너 ID를 사용하여 Cast Iron 설치 및 구성의 유효성을 검증합니다. Cast Iron 컨테이너 ID는 동적으로 Docker에서 생성됩니다.

참고:

Cast Iron 컴포넌트 상태를 가져올 때까지 다음 명령을 사용하여 Cast Iron 설치 및 구성의 유효성을 검증할 수 있습니다.

```
docker logs -f <CI Container ID>
```

예를 들어, 다음과 같습니다.

```
Cast Iron Component Status
-----
DerbyServer : Up
WMC         : Up
Maestro     : Up
Gateway     : Up
```

또한 Docker 호스트 시스템의 ETH0 IP 주소를 사용하여 Cast Iron 웹 관리 콘솔을 열고 액세스 가능한지 확인하십시오.

상위 주제: [WebSphere Cast Iron Docker 컨테이너](#)

## Cast Iron 컨테이너에 대한 작업

---

### 시작하기 전에

---

다음 명령에서 CI 컨테이너 ID를 사용하여 Cast Iron 컨테이너에 로그인합니다.

```
docker exec -it <CI Container ID> /bin/bash
```

예를 들어, 다음과 같습니다. `docker exec -it`

```
1f79e655352c536161313eb5e9ea8b0d5a72e0104358b106bb6b1e70892be022 /bin/bash. 여기서
1f79e655352c536161313eb5e9ea8b0d5a72e0104358b106bb6b1e70892be022는 CI 컨테이너 ID입니다.
```

참고:

- Docker 플랫폼에서 사용 가능한 별도의 Cast Iron CLI 프롬프트는 없으므로 다양한 태스크에 대해 동일한 Ubuntu 프롬프트를 사용합니다.
- ssh 또는 telnet을 사용하는 Cast Iron 컨테이너에 대한 직접 통신은 없습니다. 통신하는 유일한 방법은 Docker 호스트 시스템에 로그인하여 위 명령을 사용해 로그인하는 방법뿐입니다.

## 이 태스크 정보

---

이 태스크를 사용하여 Cast Iron 컨테이너에 로그인하고 상호 작용하십시오.

## 프로시저

---

Cast Iron 컨테이너 내부에서 Cast Iron과 상호 작용하려면 `castiron` 명령을 사용하십시오.

```
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
```

참고: Cast Iron 로그는 문제점 해결을 위해 `/var/log`에서 사용 가능합니다.

### 경고

참고: 추가 애플리케이션/Ubuntu 패키지를 설치하지 않는 것이 좋습니다. 설치할 경우 Cast Iron 인스턴스가 변경되고 사용 불가능해질 수 있습니다.

## 결과

---

Cast Iron에 성공적으로 로그인한 후 이를 사용합니다.

상위 주제: [WebSphere Cast Iron Docker 컨테이너](#)

# Cast Iron 컨테이너에서 Cast Iron 인스턴스 업그레이드

---

## 시작하기 전에

---

- Cast Iron Docker tar 파일(업그레이드하려는 버전)을 수정 센터(passport)에서 다운로드합니다.
- Docker 패키지가 있는 Ubuntu 서버로 전송합니다.
- 다음 명령을 사용하여 Cast Iron Docker 컨테이너에 tar 파일을 전송합니다.

```
docker cp <CI docker file name>.tar.gz <existing CI Container ID>:/var/tmp/
```

예를 들어, 다음과 같습니다. `docker cp 7.5.1.0-docker_build-20160302-1709_H8_64.tar.gz 1f79e655352c536161313eb5e9ea8b0d5a72e0104358b106bb6b1e70892be022:/var/tmp/`. 여기서 `1f79e655352c536161313eb5e9ea8b0d5a72e0104358b106bb6b1e70892be022`는 컨테이너 ID입니다.

## 이 태스크 정보

---

이 태스크를 사용하여 Cast Iron 컨테이너의 기존 Cast Iron 인스턴스를 수정 센터에서 다운로드한 나중 버전으로 업그레이드합니다.

## 프로시저

---

1. Cast Iron 웹 관리 콘솔에 로그인하십시오.
2. 모든 Cast Iron 프로젝트를 중지하고 배치 취소하십시오.
3. 이미 구성된 경우 보안 커넥터 인스턴스를 중지하십시오.
4. Cast Iron 컨테이너 CLI 프롬프트에서 다음 명령을 실행하여 최신 버전으로 업그레이드하십시오.

```
castiron --upgrade /var/tmp/<CI Docker file name>.tar.gz
```

예를 들어, 다음과 같습니다. `castiron --upgrade /var/tmp/7.5.1.0-docker_build-20160302-1709_H8_64.tar.gz`. 여기서 `7.5.1.0-docker_build-20160302-1709_H8_64`는 CI Docker 파일 이름입니다.

## 결과

---

성공적으로 업그레이드한 경우 다음과 유사한 메시지가 표시됩니다.

```
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
```

**상위 주제:** [WebSphere Cast Iron Docker 컨테이너](#)

# Cast Iron 어플라이언스에서 Cast Iron 컨테이너로 프로젝트 마이그레이션

---

## 시작하기 전에

---

- Cast Iron 어플라이언스에서 웹 관리 콘솔 프로젝트 내보내기 옵션을 통해 모든 프로젝트를 .tar 파일로 내보냅니다.
- Cast Iron 컨테이너 웹 관리 콘솔에 대한 액세스 권한이 있는 시스템으로 .tar 파일을 전송합니다.

## 이 태스크 정보

---

이 태스크를 사용하여 Cast Iron 어플라이언스에서 Cast Iron 컨테이너로 프로젝트를 마이그레이션합니다.

## 프로시저

---

1. Cast Iron 컨테이너의 Cast Iron 웹 관리 콘솔에 로그인하십시오.
2. 웹 관리 콘솔의 프로젝트 가져오기 옵션을 사용하여 Cast Iron 컨테이너로 프로젝트를 포함하는 .tar 파일을 가져오십시오.
3. 모든 프로젝트를 시작하고 동일한 항목을 확인하십시오.

참고:

- Cast Iron 웹 관리 콘솔에 파일을 업로드하는 경우 Chrome 웹 브라우저가 권장됩니다.
- 프로젝트에서 보안 커넥터를 새로 작성하고 구성해야 합니다.
- Cast Iron 컨테이너 웹 관리 콘솔에 인증서를 수동으로 가져와야 합니다.
- 적절하게 모든 써드파티 라이브러리를 가져오십시오.

## 결과

---

Cast Iron 어플라이언스에서 Cast Iron 컨테이너로 프로젝트를 마이그레이션했습니다.

상위 주제: [WebSphere Cast Iron Docker 컨테이너](#)

## Cast Iron 컨테이너에서 문제점 해결

---

### 더 이상 사용되지 않는 기능

---

다음은 Cast Iron 컨테이너에서 더 이상 사용되지 않는 어플라이언스의 피쳐/기능입니다.

- Cast Iron CLI 프롬프트 없음
- 웹 관리 콘솔에서 하드웨어 상태 없음
- 웹 관리 콘솔에서 로그 알림 없음

### Cast Iron 컨테이너 로그에서 도움말 확인

---

모든 Cast Iron 컨테이너 로그는 Docker 내부 /var/log 폴더 아래에서 사용 가능합니다.

또한 다음 명령을 사용하여 post mortem 로그를 생성할 수도 있습니다.

```
castiron --generatepostmortem
```

postmortem tar는 /var/tmp/postmortem\_all.tar.gz에서 사용 가능합니다.

상위 주제: [WebSphere Cast Iron Docker 컨테이너](#)

## 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.)

---

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

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/integration\\_appliance\\_monitoring\\_options.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/integration_appliance_monitoring_options.html)

## 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.



---

## Feedback | Notices

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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' castironsys.mib |
while read mib; do
echo $mib
sed -ne "/^$mib/,/^END/p" castironsys.mib > $mib
done
```

**Parent topic:** [About the Cast Iron SNMP MIB](#)

---

## Feedback | Notices

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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      ciia.1.1.2.1.3
-- ciIaProjEntryConfig       ciia.1.1.2.1.4
-- ciIaProjEntryState        ciia.1.1.2.1.5
```

```
--      ciIaProjEntryNbrRunning          ciia.1.1.2.1.6
--      ciIaProjEntryNbrCompleted        ciia.1.1.2.1.7
--      ciIaProjEntryNbrErrored          ciia.1.1.2.1.8
--      ciIaProjEntryTimePublished       ciia.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 `snmptable` command to display the data in a table format. Data for each event displays as a new row.

```
$ snmptable -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
0      OnlineLicensing          1.0          Default          undeployed
0      OnlineLicensing          1.0 OnlineLicensingClone  undeployed
0      OnlineLicensing          1.0 OnlineLicensingClone  undeployed
0      OnlineLicensing          1.0 OnlineLicensingClone  undeployed
```

**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:

OID	SNMP Name	Notes
.1.3.6.1.2.1.1	SNMPv2-MIB::system	
.1.3.6.1.2.1.2	IF-MIB::interfaces	
.1.3.6.1.2.1.4	IP-MIB::ip	
.1.3.6.1.2.1.5	IP-MIB::icmp	
.1.3.6.1.2.1.6	TCP-MIB::tcp	
.1.3.6.1.2.1.7	UDP-MIB::udp	
.1.3.6.1.2.1.1 1	SNMPv2-MIB::snmp	
.1.3.6.1.2.1.2 5.1	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
.1.3.6.1.2.1.2 5.2	HOST-RESOURCES-MIB::hrStorage	
.1.3.6.1.2.1.2 5.3	HOST-RESOURCES-MIB::hrDevice	
.1.3.6.1.4.1.2 021.4	UCD-SNMP-MIB::memory	
.1.3.6.1.4.1.2 021.10	UCD-SNMP-MIB::laTable	CPU Load Average
.1.3.6.1.4.1.2 021.11	UCD-SNMP-MIB::systemStats	
.1.3.6.1.4.1.1 3336	CASTIRON-REGISTRATIONS-MIB::castironsys	See the Cast Iron MIB, particularly CASTIRON-IA-MIB.

 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.notifications\\_reference.doc/snmp\\_items\\_available\\_using\\_snmpget.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/snmp_items_available_using_snmpget.html)

## 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 notification that 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/using\\_traps\\_to\\_monitor\\_appliance\\_health.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/using_traps_to_monitor_appliance_health.html)

## Archive Module

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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.
<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.

Notification	Level	System	Description
<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.

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## Feedback | Notices

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## Archive Operation Notifications

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Provides a comprehensive list of operation notifications sent from the Archive Module.


- [ArchiveDone](#)  
Activity has successfully completed archiving.
- [ArchiveEntryBlank](#)  
Archive input entry does not have any content.
- [ArchiverCreated](#)  
Activity has successfully created an archiver for archiving.
- [ErrorIdentifyArchive](#)  
There was an error identifying the archive entry.
- [ErrorUnZipOperation](#)  
There was an error performing unzip operation.
- [ErrorZipOperation](#)  
There was an error performing zip operation.
- [IncorrectParameters](#)  
Parameters provided to the activity are invalid.
- [InvalidArchiveEntry](#)  
There was an error reading archive entry.
- [InvalidArchiveFormat](#)  
Activity could not create an archiver for the supplied archiving format. This format might not be

- supported by the activity.
- [InvalidBzipEntry](#)  
The bzip entry has more than one entry.
  - [InvalidDateTime](#)  
Error occurred while parsing datetime from archive entries.
  - [InvalidGzipEntry](#)  
The gzip entry has more than one entry.
  - [InvalidNumInArchEntry](#)  
The numeric value in archive entry is not valid.
  - [InvalidUnArchFormat](#)  
Activity could not create an unarchiver for the supplied archiving format. This format might not be supported by the activity.
  - [InvalidUnarchiveInput](#)  
The input to unarchive is invalid.
  - [UnArchiverCreated](#)  
Activity has successfully created an unarchiver for unarchiving.
  - [UnarchiveDone](#)  
Activity has successfully completed unarchiving.
  - [ValidationError](#)  
The input entries were not successfully validated against the schema.
  - [ValidationFine](#)  
The input entries were successfully validated against the schema.

**Parent topic:** [Archive Module](#)

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## ArchiveDone

---

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

---



The ArchiveDone message contains the following variables:


Table 1. ArchiveDone Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

Parent topic: [Archive Operation Notifications](#)

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

Parent topic: [Archive Operation Notifications](#)

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http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\_reference.doc/archive/archive\_operation\_archiveentryblank\_message.html

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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: [Archive Operation Notifications](#)

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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

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 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. 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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: [Archive Operation Notifications](#)

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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

The ErrorZipOperation message contains the following variables:

Table 1. ErrorZipOperation Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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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## IncorrectParameters

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

The IncorrectParameters message contains the following variables:

Table 1. IncorrectParameters 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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## InvalidArchiveEntry

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


---

The InvalidArchiveEntry message contains the following variables:

Table 1. InvalidArchiveEntry Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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: [Archive Operation Notifications](#)

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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. FormatName

The archive format which is not supported.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-ARCHIVE-MIB::ciC4oEv2FormatName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.4.1.2.1.2.1

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## InvalidBzipEntry

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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

## 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** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 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** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 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: [Archive Operation Notifications](#)

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>



- **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:** [Archive Operation Notifications](#)

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## Crypto Service Module

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


Notification	Level	System	Description
<a href="#">DecryptDone</a>	Info	Orchestration	Activity completed decrypting the content.
<a href="#">DecryptStarted</a>	Info	Orchestration	Activity started decrypting the content.
<a href="#">EncryptDone</a>	Info	Orchestration	Activity completed encrypting the content.
<a href="#">EncryptStarted</a>	Info	Orchestration	Activity started encrypting the content.
<a href="#">FoundPrivateKey</a>	Info	Orchestration	Crypto Service was successfully able to read the private key from the java key store.
<a href="#">FoundPublicKey</a>	Info	Orchestration	Crypto Service was successfully able to read the public key from the java key store.

Notification	Level	System	Description
<a href="#">IOException</a>	Severe	Orchestration	Activity could not read or write to one of the Input / Output files.
<a href="#">InputEntryCount</a>	Info	Orchestration	Activity successfully filtered specified number of entries.
<a href="#">IntegrityCheckFailed</a>	Info	Orchestration	Message failed integrity check.
<a href="#">IntegrityCheckPassed</a>	Info	Orchestration	Message passed integrity check.
<a href="#">InvalidAlgorithm</a>	Severe	Orchestration	Activity could not find key because of invalid algorithm.
<a href="#">InvalidContent</a>	Severe	Orchestration	The input content cannot be empty.
<a href="#">InvalidDateFormat</a>	Severe	Orchestration	The date format is not valid. Enter date in dd-MM-yyyy format
<a href="#">InvalidFormat</a>	Severe	Orchestration	Activity could not complete due invalid crypto format.
<a href="#">InvalidKeyOrPwd</a>	Severe	Orchestration	Activity could not find a specified key handle in the java keystore with provided name and password.
<a href="#">InvalidKeyStore</a>	Severe	Orchestration	Activity could not find a specified entry in key store.
<a href="#">InvalidKeyhandle</a>	Severe	Orchestration	The input keyhandle cannot be empty.
<a href="#">InvalidPassword</a>	Severe	Orchestration	The input password cannot be empty.
<a href="#">NoIntegrityCheck</a>	Info	Orchestration	No Message integrity check.
<a href="#">PGPException</a>	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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

Parent topic: [Crypto Service Operation Notifications](#)

## 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


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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></ul>

- **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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## 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.

- **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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## 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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>

Parent topic: [Crypto Service Operation Notifications](#)

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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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## 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

### 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 filtered by the activity.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oEv12NumberOfEntries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.26.1.2.1.12.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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

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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.



- **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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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></ul>

- **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. KeyHandleName


KeyHandle Name used to Encrypt / Decrypt the content.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-CRYPTOSERVICE-MIB::ciC26oEv3KeyHandleName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.26.1.2.1.3.1

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/cryptoservice/cryptoservice\\_operation\\_invalidkeyorpwd\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/cryptoservice/cryptoservice_operation_invalidkeyorpwd_message.html)

## 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*

## Variables

---

The InvalidKeyStore message contains the following variables:

Table 1. InvalidKeyStore Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. KeyHandleName</b></p> <p>KeyHandle Name used to Encrypt / Decrypt the content.</p> <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>

Parent topic: [Crypto Service Operation Notifications](#)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>



Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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. KeyHandleName

KeyHandle Name used to Encrypt / Decrypt the content.

- **Type** : String
- **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

### 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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# 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*

## Variables

---

The NoIntegrityCheck message contains the following variables:


Table 1. NoIntegrityCheck Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

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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

--

### 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. 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>



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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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

Parent topic: [Data Operation Notifications](#)

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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

<p><b>1. SerialNumber</b></p> <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> : <i>CASTIRON-IA-MIB::ciIaPlatSerialNumber</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.1.3.3</i></li></ul>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvMessage</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.1.2.2</i></li></ul>

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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*

SNMP Trap Number : 5

## Variables

---

The SerializeIOError message contains the following variables:

Table 1. SerializeIOError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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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## 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
<a href="#">BadPreloadQuery</a>	Warning	Orchestration	Activity could not execute query to preload lookup cache.

Notification	Level	System	Description
<a href="#">DQLookupFuzzyOnCloud</a>	Severe	Orchestration	Data Quality Lookup activity with Fuzzy option is not supported in cloud
<a href="#">FilterError</a>	Severe	Orchestration	Activity failed to filter data.
<a href="#">InputEntryCount</a>	Info	Orchestration	Activity successfully filtered specified number of entries.
<a href="#">LeftMergeInputEntry</a>	Info	Orchestration	Activity successfully merged specified number of entries.
<a href="#">LookUpEntryCount</a>	Info	Orchestration	Activity successfully looked up specified number of entries.
<a href="#">LookUpError</a>	Severe	Orchestration	Activity failed to perform lookup for data.
<a href="#">MergeError</a>	Severe	Orchestration	Activity failed to merge data.
<a href="#">NoAssetsError</a>	Severe	Orchestration	Failed to perform lookup for data, database assets may not have been created.
<a href="#">NoPreloadedCache</a>	Info	Orchestration	Lookup cache was not preloaded by the activity.
<a href="#">OutputEntryCount</a>	Info	Orchestration	Activity successfully outputted specified number of entries.
<a href="#">PreloadedCache</a>	Info	Orchestration	Lookup cache was preloaded by activity with specified number of entries.
<a href="#">RightMergeInputEntry</a>	Info	Orchestration	Activity successfully merged specified number of entries.
<a href="#">SortError</a>	Severe	Orchestration	Activity failed to sort data.
<a href="#">SortInputEntryCount</a>	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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

Parent topic: [Data Quality Operation Notifications](#)

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

## 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 Quality Operation Notifications](#)

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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

### 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 filtered by the activity.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-DQ-MIB::ciC14oEv2NumberOfEntries
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.14.1.2.1.2.1

Parent topic: [Data Quality Operation Notifications](#)

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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*

## Variables

---

The LeftMergeInputEntry message contains the following variables:

Table 1. LeftMergeInputEntry Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. NumberOfEntries</b></p> <p>Number of entries merged by the activity.</p> <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>

Parent topic: [Data Quality Operation Notifications](#)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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 looked up by the activity.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-DQ-MIB::ciC14oEv7NumberOfEntries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.14.1.2.1.7.1

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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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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## 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

<b>1. SerialNumber</b> The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <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

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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


The OutputEntryCount message contains the following variables:

Table 1. OutputEntryCount Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. NumberOfEntries</b></p> <p>Number of entries outputted by the activity.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DQ-MIB::ciC14oEv3NumberOfEntries</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.14.1.2.1.3.1</li></ul>
<p><b>6. Target</b></p> <p>Output variable where entries were placed.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DQ-MIB::ciC14oEv3Target</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.14.1.2.1.3.2</li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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

### 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 merged by the activity.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-DQ-MIB::ciC14oEv12NumberOfEntries
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.14.1.2.1.12.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

## 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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# 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

### 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 sorted by the activity.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-DQ-MIB::ciC14oEv14NumberOfEntries
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.14.1.2.1.14.1

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/dq/dq\\_operation\\_sortinputentrycount\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/dq/dq_operation_sortinputentrycount_message.html)

## 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

The DQLookupFuzzyOnCloud message contains the following variables:

Table 1. DQLookupFuzzyOnCloud Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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

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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
<a href="#">ActivateError</a>	Severe	Orchestration	A problem occurred while activating the activity.
<a href="#">ConnectionError</a>	Warning	Orchestration	An error occurred while connecting to the database endpoint.
<a href="#">ConnectionRetry</a>	Warning	Orchestration	An error occurred while attempting to connect to the database.
<a href="#">DataSourceHashCode</a>	Info	Orchestration	Information regarding the hash code used to register the datasource.
<a href="#">DataSourceRegistered</a>	Info	Orchestration	Information about the datasource name registered with the system.
<a href="#">DateTimeParseError</a>	Severe	Orchestration	Unable to parse the date and time
<a href="#">DeleteRowsError</a>	Severe	Orchestration	An exception occurred while deleting the row from the control table.


Notification	Level	System	Description
DeleteRowsFailure	Severe	Orchestration	Unable to delete rows from the buffer table.
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.

Notification	Level	System	Description
<a href="#">UnexpectedEmptyRows</a>	Warning	Orchestration	An unexpected result returned from the buffer table. Expecting rows to present in result, instead the result is empty.
<a href="#">UpdateQuery</a>	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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/database/database\\_connection\\_notifications\\_list.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/database/database_connection_notifications_list.html)

# 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>



## 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: [Database Connection Notifications](#)

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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

### 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. RetryAttemptNumber

The current number of retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2cEv2RetryAttemptNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.2.1.1.1.2.2

### 7. TotalRetryAttempts

The specified number of times to attempt connecting to the database before stopping.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2cEv2TotalRetryAttempts
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.2.1.1.1.2.3

### 8. IntervalForRetries

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** : 1.3.6.1.4.1.13336.2.2.3.2.1.1.1.2.4

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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::ciC2cJDBCConnectionCloseEv4*

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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. 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

Parent topic: [Database Connection Notifications](#)

## Database Operation Notifications

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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*

SNMP Trap Number : *2*

## Variables

---

The ActivateError message contains the following variables:

Table 1. ActivateError 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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## DataSourceHashCode

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. DataSourceName</b></p> <p>The name of the datasource</p> <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>


## 6. HashCodeName

The name of the hash code used to register the datasource.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2oEv19HashCodeName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.2.1.2.1.19.2

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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

### 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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## DateTimeParseError

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::ciC2oDateTimeParseErrorEv21*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.2.1.2*

SNMP Trap Number : *21*

## Variables

The DateTimeParseError message contains the following variables:

Table 1. DateTimeParseError 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. 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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 ase\_operation\_datetimestamperror\_message.html

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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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## 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


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Query</b></p> <p>The query string.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>



- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2oEv5Query
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.2.1.2.1.5.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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::ciC2oEv4Query
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.2.1.2.1.4.1

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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

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The ErrorDeletePost message contains the following variables:


Table 1. ErrorDeletePost Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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

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The ErrorSingleTableJob message contains the following variables:

Table 1. ErrorSingleTableJob Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <p>Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.</p>

- **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 table row number where the error occurred.

- **Type** : Integer
- **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

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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*

## Variables

---

The InboundOperationError message contains the following variables:

Table 1. InboundOperationError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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: [Database Operation Notifications](#)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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

### 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

The name of the table for which the threshold was reached.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2oEv8TableName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.2.1.2.1.8.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. MethodName</b></p> <p>Name of the method.</p>

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2oEv7MethodName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.2.1.2.1.7.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>

### 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


The name of the operation which was not found

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2oEv1OperationName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.2.1.2.1.1.1

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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*

The OutboundActivateError message contains the following variables:

Table 1. OutboundActivateError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></ul>

- **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.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DATABASE-MIB::ciC2oEv14QueryString
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.2.1.2.1.14.1

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# 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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. Query</b></p> <p>The query string.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-DATABASE-MIB::ciC2oEv3Query</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.2.1.2.1.3.1</i></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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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

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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

### 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


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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. RowNumber</b></p> <p>The row number at which the error occurred.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-DATABASE-MIB::ciC2oEv16RowNumber</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.2.1.2.1.16.1</i></li></ul>
<p><b>6. Message</b></p>




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*

The UpdateQuery message contains the following variables:

Table 1. UpdateQuery Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Query</b></p> <p>The query string.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DATABASE-MIB::ciC2oEv6Query</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.2.1.2.1.6.1</li></ul>

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## Database Internal Notifications

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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></ul> |
|--|

- **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: [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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

Parent topic: [Database Internal Notifications](#)

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## Domino Module

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
<a href="#">ActivateFailureBlank</a>	Severe	Orchestration	The specified activity name is not executed successfully because the activity name was blank.
<a href="#">ActivateSuccess</a>	Info	Orchestration	The specified activity name is activated successfully.
<a href="#">ActivityCreateSuccess</a>	Info	Orchestration	The specified activity name is created successfully and is ready for invocation.
<a href="#">ActivityFailure</a>	Severe	Orchestration	The specified activity name failed to execute.
<a href="#">ActivitySuccessful</a>	Info	Orchestration	The specified activity name is executed successfully. The response parameter is populated successfully.
<a href="#">ConnectError</a>	Severe	Orchestration	An error occurred while processing the connection parameters sent as part of the request in the activity.
<a href="#">InitializationError</a>	Severe	Orchestration	Exception while initializing Lotus Domino connector.
<a href="#">RetryCount</a>	Info	Orchestration	The specified activity re tried the execution so many times specified above.
<a href="#">RunningInfo</a>	Warning	Orchestration	Encountered few warnings or errors while running Domino activity.
<a href="#">RunningMessages</a>	Warning	Orchestration	Received messages while executing the activity.
<a href="#">SchemaInvoke</a>	Info	Orchestration	The specified activity name is generating schemas.
<a href="#">StopSuccess</a>	Info	Orchestration	The specified activity name is successfully stopped.
<a href="#">UnmarshalError</a>	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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

## 5. ActivityName

The activity name that failed to activate.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DOMINO-MIB::ciC22oEv9ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.22.1.2.1.9.1

## 6. Name


The blank activity name caused the activation to fail.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DOMINO-MIB::ciC22oEv9Name
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.22.1.2.1.9.2

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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

### 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 is activated successfully.

- **Type** : String
- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ActivityName</b></p> <p>The activity name that is created.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>

- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. ActivityName</b></p> <p>The activity name that is executed successfully.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-DOMINO-MIB::ciC22oEv5ActivityName</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.22.1.2.1.5.1</i></li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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. ActivityName

The activity name.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DOMINO-MIB::ciC22oEv11ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.22.1.2.1.11.1

#### 6. Count


The retry count which activity tried so far.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-DOMINO-MIB::ciC22oEv11Count
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.22.1.2.1.11.2

Parent topic: [Domino Operation Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/domino/domino\\_operation\\_retrycount\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/domino/domino_operation_retrycount_message.html)

## 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*

## Variables

---

The RunningInfo message contains the following variables:

Table 1. RunningInfo Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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: [Domino Operation Notifications](#)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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. MessageType

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ActivityName</b></p> <p>The activity name that invoked the generation of schemas.</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DOMINO-MIB::ciC22oEv10ActivityName</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.22.1.2.1.10.1</li> </ul>
<p><b>6. Name</b></p> <p>The name of the schema that is not in the configuration document.</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-DOMINO-MIB::ciC22oEv10Name</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.22.1.2.1.10.2</li> </ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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. 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

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>




## 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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## 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

### 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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## 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

### 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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# Email Module

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
<a href="#">BodyNull</a>	Severe	Orchestration	The 'body' input parameter from the container is null. This is an error condition.
<a href="#">ConPoolReleaseError</a>	Warning	Orchestration	Error while closing the connection pool.
<a href="#">ConnectError</a>	Severe	Orchestration	The email activity operation failed because a connection to the server could not be established.
<a href="#">ConnectErrorRetry</a>	Warning	Orchestration	The email activity operation failed while trying to connect to the server. This will cause a retry.
<a href="#">ConnectHeaderAbsent</a>	Info	Orchestration	The optional input header - emailConnection - is mapped.
<a href="#">ConnectHeaderPresent</a>	Info	Orchestration	The optional input header - emailConnection - is mapped.
<a href="#">ConnectionPoolReturn</a>	Warning	Orchestration	Error occurred while returning connection to pool.
<a href="#">CouldNotGetHostIP</a>	Warning	Orchestration	Error occurred while getting IP of the router. Continuing activity without the host IP.
<a href="#">DisconnectException</a>	Warning	Orchestration	Error while trying to disconnect from server. Discarding error and continuing the activity.
<a href="#">EmailMatched</a>	Info	Orchestration	Found an email matching From and subject fields specified in configuration.
<a href="#">EmailSent</a>	Info	Orchestration	The activity successfully sent email to the server.
<a href="#">EndpointData</a>	Info	Orchestration	The information regarding the email endpoint data.
<a href="#">IncorrectPort</a>	Warning	Orchestration	The email port needs to be a positive integer. Defaulting to 110 in case its not specified as positive integer.
<a href="#">IncorrectSmtport</a>	Warning	Orchestration	The email port needs to be a positive integer. Defaulting to 25 in case its not specified as positive integer.
<a href="#">IncorrectSmtptimeout</a>	Warning	Orchestration	The connection timeout needs to be a positive integer. Defaulting to 300 seconds in case its not specified as positive integer


Notification	Level	System	Description
<a href="#">IncorrectTimeout</a>	Warning	Orchestration	The connection timeout needs to be a positive integer. Defaulting to 300 seconds in case its not specified as positive integer
<a href="#">InvalidAddressFormat</a>	Warning	Orchestration	The email address in the specified field is in incorrect format.
<a href="#">InvalidEmailID</a>	Warning	Orchestration	The email id specified is not valid.
<a href="#">MailHeaderAbsent</a>	Info	Orchestration	The optional input header - mailheader - is not mapped.
<a href="#">MailHeaderPresent</a>	Info	Orchestration	The optional input header - mailheader - is mapped.
<a href="#">MailsDeleted</a>	Info	Orchestration	The mails processed in the current poll have been deleted from the server.
<a href="#">MailsToBeDeleted</a>	Info	Orchestration	There are some mails to be deleted as they were processed earlier.
<a href="#">MakeConPoolError</a>	Warning	Orchestration	Error while creating the connection.
<a href="#">NewConnectEverytime</a>	Info	Orchestration	The additional property 'smtpNewConnEveryTime' was added to connection pool.
<a href="#">NoEmailMatched</a>	Info	Orchestration	Could not find an email matching From and subject fields specified in configuration.
<a href="#">NoMailOnServer</a>	Info	Orchestration	No mail was found on server.
<a href="#">PatternIncorrect</a>	Severe	Orchestration	Pattern specified in the activity is incorrect.
<a href="#">Pop3ConfigParams</a>	Info	Orchestration	Configuration parameters specified in the activity.
<a href="#">Pop3Connected</a>	Info	Orchestration	The activity was successfully able to connect to the email server.
<a href="#">Pop3DataError</a>	Severe	Orchestration	A pop3 data error occurred while executing the activity.
<a href="#">Pop3InternalError</a>	Severe	Orchestration	Internal error occurred while executing pop3 activity.
<a href="#">Pop3MailSent</a>	Info	Orchestration	Activity has outputted 'mailheader' and 'body' output parameters. Mail marked for deletion from server
<a href="#">Pop3NumMails</a>	Info	Orchestration	Number of mails found on the email server.
<a href="#">Pop3ServerError</a>	Severe	Orchestration	A pop3 command unexpectedly returned an error while executing the activity.
<a href="#">SaveStateError</a>	Warning	Orchestration	Error occurred while trying to save duplist state after disconnect. Will cleanup in next poll.
<a href="#">SetBCCFieldValue</a>	Info	Orchestration	Setting the value of 'BCC' field to specified value
<a href="#">SetCCFieldValue</a>	Info	Orchestration	Setting the value of 'CC' field to specified value
<a href="#">SetFromFieldValue</a>	Info	Orchestration	Setting the value of 'From' field to specified value
<a href="#">SetSubjectFieldValue</a>	Info	Orchestration	Setting the value of the 'Subject' field to the specified value.
<a href="#">SetTimeout</a>	Info	Orchestration	Setting the timeout to specified value.

Notification	Level	System	Description
<a href="#">SetToFieldValue</a>	Info	Orchestration	Setting the value of 'To' field to specified value
<a href="#">SmtpConfigParams</a>	Info	Orchestration	Information regarding configuration parameters specified in email activity.
<a href="#">SmtpConnectFailed</a>	Severe	Orchestration	The email activity operation failed because a connection to the server could not be established.
<a href="#">SmtpConnectRetry</a>	Warning	Orchestration	The email activity operation failed while trying to connect to the server. This will cause a retry.
<a href="#">SmtpConnected</a>	Info	Orchestration	The activity was successfully able to connect to the email server.
<a href="#">SmtpDataError</a>	Severe	Orchestration	Smtp data error occurred while executing the activity.
<a href="#">SmtpDisconnectError</a>	Warning	Orchestration	Error while trying to disconnect from server. Discarding error and continuing the activity.
<a href="#">SmtpEndpointData</a>	Info	Orchestration	The information regarding the email endpoint data.
<a href="#">SmtpInternalError</a>	Severe	Orchestration	Internal error occurred while executing smtp activity.
<a href="#">SmtpSendEmail</a>	Info	Orchestration	The activity is sending email to the server.
<a href="#">SmtpTimeout</a>	Info	Orchestration	Setting the timeout to specified value.
<a href="#">SubjectPatternError</a>	Severe	Orchestration	Subject pattern specified in the activity is incorrect.
<a href="#">ToAndCCEmpty</a>	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

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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

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The ConPoolReleaseError message contains the following variables:

Table 1. ConPoolReleaseError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>



Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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

### 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. NumberOfRetryAttempts

The total number of attempted retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7cEv4NumberOfRetryAttempts
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.7.1.1.1.4.1

## 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

Parent topic: [Email Connection Notifications](#)

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <p>Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.</p>

- **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::ciC7cEv5RetryAttemptNumber
- **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

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The ConnectHeaderAbsent message contains the following variables:

Table 1. ConnectHeaderAbsent Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

Parent topic: [Email Connection Notifications](#)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>


Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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></ul>

- **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://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/email/email\\_connection\\_connectionpoolreturn\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/email/email_connection_connectionpoolreturn_message.html)

## 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*



## Variables

---

The DisconnectException message contains the following variables:

Table 1. DisconnectException Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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 Connection Notifications](#)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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 specified in email endpoint.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7cEv6HostName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.6.1

#### 6. Port

The port number specified in email endpoint.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7cEv6Port
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.6.2

#### 7. Username


The user name specified in email endpoint.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7cEv6Username
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.6.3

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. PortNumber</b></p> <p>Port number specified for email which caused an error.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7cEv1PortNumber</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.1.1</li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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. 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Timeout</b></p>




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** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 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*


The NewConnectEverytime message contains the following variables:

Table 1. NewConnectEverytime Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. PropertyName</b></p> <p>The new property added.</p> <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>
<p><b>6. PropertyValue</b></p> <p>Value of the new property added.</p> <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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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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## 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

### 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::ciC7cEv8Timeout
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.7.1.1.1.8.1

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# SmtplibConnectFailed

---

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::ciC7cSntpConnectFailedEv14*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.7.1.1*

SNMP Trap Number : *14*

## Variables

The SntpConnectFailed message contains the following variables:

Table 1. SntpConnectFailed Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. NumberOfRetryAttempts</b></p> <p>The total number of attempted retries.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-EMAIL-MIB::ciC7cEv14NumberOfRetryAttempts</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.7.1.1.1.14.1</li></ul>


## 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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## SntpConnectRetry

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::ciC7cSntpConnectRetryEv15*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.7.1.1*

SNMP Trap Number : *15*

## Variables

The SntpConnectRetry message contains the following variables:

Table 1. SntpConnectRetry 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. 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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## SmtplibConnected

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::ciC7cSmtplibConnectedEv11*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.7.1.1*

SNMP Trap Number : *11*

## Variables

The SmtplibConnected message contains the following variables:

Table 1. SmtplibConnected Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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

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## SmtplibDisconnectError

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::ciC7cSmtplibDisconnectErrorEv18*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.7.1.1*

SNMP Trap Number : *18*

## Variables

The SmtplibDisconnectError message contains the following variables:

Table 1. SmtplibDisconnectError 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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## 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::ciC7cSntpEndpointDataEv17*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.7.1.1*

SNMP Trap Number : *17*

## Variables

The SntpEndpointData message contains the following variables:

Table 1. SntpEndpointData Message Variables

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. HostName</b></p> <p>The host name specified in email endpoint.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-EMAIL-MIB::ciC7cEv17HostName</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.7.1.1.1.17.1</i></li></ul>
<p><b>6. Port</b></p>

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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. 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 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.

- **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. FromPattern

The value specified for From field.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv5FromPattern
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.2.1.5.1

## 6. SubjectPattern

The value specified for subject field.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv5SubjectPattern
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.2.1.5.2

Parent topic: [Email Operation Notifications](#)

## 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


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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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## 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

### 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. Field

The specified field.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv19Field
- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. EmailID</b></p> <p>The invalid email id.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>

- **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

Parent topic: [Email Operation Notifications](#)

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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 Operation Notifications](#)

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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*

## Variables

---

The MailsDeleted message contains the following variables:


Table 1. MailsDeleted Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

Parent topic: [Email Operation Notifications](#)

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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::ciC7oMailsToBeDeletedEv11*

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

## 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** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 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** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 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

<p><b>1. SerialNumber</b></p> <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> : <i>CASTIRON-IA-MIB::ciIaPlatSerialNumber</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.1.3.3</i></li></ul>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. FromPattern</b></p> <p>From Pattern Specified in the activity.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-EMAIL-MIB::ciC7oEv2FromPattern</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.7.1.2.1.2.1</i></li></ul>



## 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

### 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. FromPattern

From Pattern Specified in the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv1FromPattern
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.2.1.1.1


### 6. SubjectPattern

Subject Pattern Specified in the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv1SubjectPattern
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.2.1.1.2

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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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## 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

### 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. 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Value</b></p> <p>The value to which CC field is set.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>

- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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 From field is set.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv22Value
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.2.1.22.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Value</b></p> <p>The value to which subject field is set.</p> <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::ciC7oSetToFieldValueEv21*

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></ul>

- **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 To field is set.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv21Value
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.2.1.21.1

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# SmtConfigParams

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::ciC7oSmtConfigParamsEv13*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.7.1.2*

SNMP Trap Number : *13*

## Variables

The SmtConfigParams message contains the following variables:

Table 1. SmtConfigParams 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. 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

---

SmtpData 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*

SNMP Trap Number : *16*

## Variables

---

The SmtpDataError message contains the following variables:

Table 1. SmtpDataError 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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## SmtSendEmail

---

The activity is sending email to the server.

Level : *Info*

Log Message : *Sending email to server.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-EMAIL-MIB::ciC7oSmtSendEmailEv26*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.7.1.2*

## Variables

---

The SmtplibSendEmail message contains the following variables:


Table 1. SmtplibSendEmail Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

Parent topic: [Email Operation Notifications](#)

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

## 5. SubjectPattern

Subject Pattern Specified in the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-EMAIL-MIB::ciC7oEv3SubjectPattern
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.7.1.2.1.3.1

## 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

**Parent topic:** [Email Operation Notifications](#)

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# Email Internal Notifications

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/email/email\\_internal\\_bodynull\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/email/email_internal_bodynull_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>



- **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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## SmtInternalError

---

Internal error occurred while executing smtp activity.

Level : *Severe*

Log Message : *Error: {Message}.*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-EMAIL-MIB::ciC7iSmtInternalErrorEv3*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.7.1.3*

SNMP Trap Number : 3

### Variables

---

The SmtInternalError message contains the following variables:

Table 1. SmtInternalError 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:** [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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

Notification	Level	System	Description
<a href="#">AppendAfter</a>	Info	Orchestration	Response received after issuing an append command to the file on remote server.
<a href="#">AppendBefore</a>	Info	Orchestration	In process of issuing an append command to the file on remote server.
<a href="#">ConnectionFailure</a>	Severe	Orchestration	The FTP operation failed because a connection to the server could not be established.
<a href="#">ConnectionRetry</a>	Warning	Orchestration	The FTP operation failed while trying to connect to the server. This will cause a retry.
<a href="#">DeleteAfter</a>	Info	Orchestration	Response received when a file was deleted from the remote server.
<a href="#">DeleteBefore</a>	Info	Orchestration	In process of deleting a file to the remote server.
<a href="#">DeleteDupListEntry</a>	Info	Orchestration	Duplicate list is at maximum capacity. Removing a file from the duplicate list.
<a href="#">DeleteInfoSummary</a>	Info	Orchestration	A complete summary of delete file activity configuration.
<a href="#">DirChangeAfter</a>	Info	Orchestration	Changed to the specified directory on remote server.
<a href="#">DirChangeBefore</a>	Info	Orchestration	Changing directory on the remote server.
<a href="#">DuplicateFile</a>	Info	Orchestration	The file was previously processed by FTP poll activity.


Notification	Level	System	Description
EncodingError	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.
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.

Notification	Level	System	Description
<a href="#">RenameDupError</a>	Severe	Orchestration	Rename operation errored as file with same name already exists.
<a href="#">RenameInfoSummary</a>	Info	Orchestration	A complete summary of get file activity configuration.
<a href="#">SshFingerprintInfo</a>	Info	Orchestration	SSH finger print information for communication with FTP server.
<a href="#">SshModeInfo</a>	Info	Orchestration	SSH mode information for communication with FTP server.
<a href="#">TimeStampError</a>	Warning	Orchestration	The timestamp command is not supported by the FTP server. Continuing the FTP activity operation using default timestamp.
<a href="#">TimestampCommand</a>	Warning	Orchestration	The timestamp command is not supported by the FTP server. Continuing the FTP activity operation.
<a href="#">UnableToDelete</a>	Warning	Orchestration	Error occurred while deleting file from the specified location.
<a href="#">UnableToMove</a>	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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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. ServerName

The server name to which connection failed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6cEv1ServerName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.1.1.1.1

#### 6. NumberOfRetryAttempts

The total number of attempted retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6cEv1NumberOfRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.1.1.1.2


#### 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/ftp/ftp\\_connection\\_failure\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/ftp/ftp_connection_failure_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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> : <i>CASTIRON-IA-MIB::ciIaPlatSerialNumber</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.1.3.3</i></li></ul>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. ServerName</b></p> <p>The server name to which connection failed.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-FTP-MIB::ciC6cEv2ServerName</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.6.1.1.1.2.1</i></li></ul>

## 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.
- [DeleteDupListEntry](#)  
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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. FileName</b></p> <p>Name of the file to which append command was issued.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv4FileName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.4.1</li></ul>
<p><b>6. ResponseCode</b></p> <p>Response code returned by the remote server on the append command.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv4ResponseCode</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.4.2</li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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. FileName

Name of the file to which append command is being issued.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv3FileName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.3.1

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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

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

Name of the file which was deleted.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv12FileName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.12.1

## 6. ResponseCode

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

Parent topic: [FTP Operation Notifications](#)



## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. DirName</b></p> <p>Directory name specified in the configuration.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv34DirName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.34.1</li></ul>


## 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

SNMP Trap Number : 2

## Variables

The DirChangeAfter message contains the following variables:

Table 1. DirChangeAfter 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. DirectoryName

Name of the directory on remote server.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv2DirectoryName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.2.1


### 6. ResponseCode

Response code returned by the remote server on the change directory command.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv2ResponseCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.2.2

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. DirectoryName</b></p> <p>Name of the directory on remote server.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>

- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv1DirectoryName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.1.1

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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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 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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. HostName</b></p> <p>Host name specified in the endpoint configuration.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-FTP-MIB::ciC6oEv36HostName</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.6.1.2.1.36.1</i></li></ul>
<p><b>6. PortName</b></p>

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. FileName</b></p>


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*


The FileProcessingError message contains the following variables:

Table 1. FileProcessingError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. FileName</b></p> <p>The name of the file that was not processed.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv26FileName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.26.1</li></ul>
<p><b>6. Message</b></p> <p>Textual description of the error.</p> <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/ftp/ftp\\_operation\\_fileprocessingerror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/ftp/ftp_operation_fileprocessingerror_message.html)

## 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 version 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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. OldStylePattern

Old style pattern sent to FTP activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv17OldStylePattern
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.17.1

#### 6. NewStylePattern


New style pattern automatically generated by FTP activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv17NewStylePattern
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.17.2

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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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. FileName</b></p> <p>Name of the file which was downloaded.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-FTP-MIB::ciC6oEv8FileName</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.6.1.2.1.8.1</i></li></ul>
<p><b>6. ResponseCode</b></p>


Response code returned by the remote server when file was downloaded.

- **Type** : Integer
- **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

### 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


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: {DirName}, 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*

The GetInfoSummary message contains the following variables:

Table 1. GetInfoSummary Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. DirName</b></p> <p>Directory name specified in the configuration.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv30DirName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.30.1</li></ul>
<p><b>6. FileName</b></p> <p>File name specified in the configuration.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv30FileName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.30.2</li></ul>

## 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

### 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. ResponseCode

Response code returned by the remote server when the directory was listed.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv14ResponseCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.14.1

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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*

## Variables

---

The ListBefore message contains the following variables:

Table 1. ListBefore Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Pattern</b></p> <p>The pattern match used to list the directory.</p> <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>

Parent topic: [FTP Operation Notifications](#)



## ListFileSummary

---

A complete summary of list file activity configuration.

Level : *Info*

Log Message : *List directory summary - Directory: {DirName}, 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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::ciC6oEv35DirName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.35.1

### 6. Pattern

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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/ftp/ftp\\_operation\\_listfilessummary\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/ftp/ftp_operation_listfilessummary_message.html)

## 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

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The NListAfter message contains the following variables:

Table 1. NListAfter Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ResponseCode</b></p> <p>Response code returned by the remote server when the directory was name listed.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv16ResponseCode</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.16.1</li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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. 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

### 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. 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <p>Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.</p>

- **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 was uploaded.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv6FileName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.6.1


### 6. ResponseCode

Response code returned by the remote server when file was uploaded.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv6ResponseCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.6.2

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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

### 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

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. FileName</b></p>


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: {DirName}, 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

### 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. SrcFileName

Name of the file which was renamed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv10SrcFileName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.10.1

### 6. DestFileName

Name of the file which the file was renamed to.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-FTP-MIB::ciC6oEv10DestFileName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.6.1.2.1.10.2


### 7. ResponseCode

Response code returned by the remote server when file was renamed.

- **Type** : Integer
- **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

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The RenameBefore message contains the following variables:

Table 1. RenameBefore Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></ul>



- **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 whihc 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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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. DirName</b></p>

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. HostName</b></p> <p>Host name for which finger print information is specified.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6oEv37HostName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.6.1.2.1.37.1</li></ul>
<p><b>6. FingerprintInfo</b></p> <p>Finger print information for the specified host.</p>

- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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*

The TimeStampError message contains the following variables:


Table 1. TimeStampError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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. 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*

## Variables

The UnableToMove message contains the following variables:

Table 1. UnableToMove Message Variables


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. FileName</b></p> <p>The name of file which was not moved.</p> <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>
<p><b>6. Message</b></p> <p>Textual description of the error.</p> <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

Parent topic: [FTP Operation Notifications](#)

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## FTP Internal Notifications

---


Provides a comprehensive list of internal notifications sent from the FTP Module.

- [EncodingError](#)  
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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## EncodingError

---

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::ciC6iEncodingErrorEv2*

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. DataEncoding</b></p> <p>The data encoding that is not supported by FTP activity.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-FTP-MIB::ciC6iEv2DataEncoding</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.6.1.3.1.2.1</li></ul>

Parent topic: [FTP Internal Notifications](#)

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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></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

Parent topic: [FTP Internal Notifications](#)

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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.
<a href="#">ClientMaxTotalConn</a>	Info	Orchestration	Setting the client connection manager maximum number of connections from the JConsole.



Notification	Level	System	Description
<a href="#">ClientReclaimPeriod</a>	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.
<a href="#">CommonHandlerError</a>	Severe	Orchestration	An error occurred handling the request received by the activity. Possible reasons are I/O or operation exceptions.
<a href="#">CompressFormat</a>	Info	Orchestration	Indicates the type of Content-Encoding in the response from the server.
<a href="#">ConnectionRetry</a>	Warning	Orchestration	The send request operation failed while trying to connect to the server. This will cause a retry.
<a href="#">ContentEncodingType</a>	Info	Orchestration	The type of Content-Encoding used in the header in the outgoing request.
<a href="#">DecompressedEncoding</a>	Info	Orchestration	Content-Encoding of the incoming request to the receive activity.
<a href="#">EndpointInformation</a>	Info	Orchestration	Request for endpoint information.
<a href="#">GeneralRequestFailed</a>	Severe	Orchestration	The send request failed while executing the activity.
<a href="#">HttpListenerStop</a>	Info	Orchestration	Information regarding the stopping of a listener on a specific port.
<a href="#">HttpLoopBackValues</a>	Info	Orchestration	Loopback port values set by the user, on the JConsole, and persisted in the sysconf.
<a href="#">IdleConTimeoutStart</a>	Info	Orchestration	The idle connection timeout thread is enabled.
<a href="#">IdleConTimeoutStop</a>	Info	Orchestration	The idle connection thread is disabled.
<a href="#">IncomingContentEnc</a>	Info	Orchestration	The Content-Encoding type in the request header received by the receive activity
<a href="#">LoopBackInitialize</a>	Info	Orchestration	Loopback values for initializing the MBean. It is set on the JConsole.
<a href="#">ReadConnectionParam</a>	Info	Orchestration	The input connection parameter is not mapped by the user.
<a href="#">ReadInputHeaders</a>	Info	Orchestration	The input parameter header is not mapped by the user.
<a href="#">ReceiveActivate</a>	Severe	Orchestration	The receive activity failed to activate.
<a href="#">ReceiveDeActivate</a>	Severe	Orchestration	The receive activity failed to stop.
<a href="#">ReceiveIOError</a>	Severe	Orchestration	An I/O error occurred while the receive activity processed the request. Possible cause might be a broken connection.
<a href="#">ReceiveInternalError</a>	Severe	Orchestration	An error occurred while the receive activity processed the request.
<a href="#">ReceiveOperationError</a>	Severe	Orchestration	An error occurred while processing the request received by the receive activity due to an unsupported Accept-Charset encoding.
<a href="#">ReceiveResponseBody</a>	Info	Orchestration	The response sent by the receive activity to a request.


Notification	Level	System	Description
<a href="#">ReceiveSendReplyError</a>	Severe	Orchestration	A connection problem caused an error while sending the response from the receive activity.
<a href="#">ReceiveURIPortInfo</a>	Info	Orchestration	Information regarding the URI and Port where the server is listening.
<a href="#">RegisterKeyStore</a>	Severe	Orchestration	An error occurred while registering the key store.
<a href="#">ReplyCompressFormat</a>	Info	Orchestration	The Content-Encoding used by the send reply activity.
<a href="#">ReplyConnectionError</a>	Severe	Orchestration	An error occurred while sending the response. Probable cause is a connection error.
<a href="#">ReplyGeneralError</a>	Severe	Orchestration	An internal error occurred while sending the reply from the receive activity.
<a href="#">ReplyHandlerNull</a>	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.
<a href="#">ReplyUnMarshalHeader</a>	Severe	Orchestration	An error occurred while reading input headers in the reply activity.
<a href="#">ReplyUnknownError</a>	Severe	Orchestration	An unknown exception occurred while sending the response to the client.
<a href="#">RequestActivate</a>	Severe	Orchestration	The request activity failed to activate.
<a href="#">RequestIgnoredHeader</a>	Info	Orchestration	The header was ignored because it is not a supported type. Supported types are gzip, deflate or compress.
<a href="#">RequestParamsDetails</a>	Info	Orchestration	Parameter details, including URL and method, used for the post activity
<a href="#">ResponseBodyBinary</a>	Info	Orchestration	The response body is binary.
<a href="#">ResponseBodyNotBinary</a>	Info	Orchestration	The response body is not binary.
<a href="#">ResponseDefinition</a>	Info	Orchestration	Response definition received from the server for the performed post.
<a href="#">SendRequestConnection</a>	Severe	Orchestration	The send request operation failed because a connection to the server could not be established.
<a href="#">SendRequestOperation</a>	Severe	Orchestration	The Send Request operation failed either while starting the activity or while executing it. Caused by an I/O or operation exception.
<a href="#">ServerResponseCode</a>	Info	Orchestration	Post response code received from the server.
<a href="#">SockCollectorFinish</a>	Info	Orchestration	Information about the completion status of the Socket Janitor. The Socket Janitor is configured on the JConsole.
<a href="#">SockCollectorRunInfo</a>	Info	Orchestration	Information about this run of the Socket Janitor. The Socket Janitor is configured on the JConsole.
<a href="#">SockCollectorSched</a>	Info	Orchestration	Sets the frequency for garbage collection by the Socket Janitor. It is set on the JConsole.

Notification	Level	System	Description
<a href="#">StaleConnectionCheck</a>	Info	Orchestration	Specifies if the stale connection check should be run on the connection manager. This is set (True or False) from the JConsole.
<a href="#">UnSupportedMedia</a>	Warning	Orchestration	Request is an unsupported media type.
<a href="#">UnsolicitedEncoding</a>	Severe	Orchestration	The server reply contains Content-Encoding which is not acceptable by the client.
<a href="#">UnsupportedEncoding</a>	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

---

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

<p><b>1. SerialNumber</b></p> <p>The serial number of the appliance sending the trap.</p>
---

- **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. TimeoutValue

The timeout value set for the client connection manager.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1cEv11TimeoutValue
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.1.1.1.1.11.1

**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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. TimeoutValue</b></p>


The Idle Timeout value set for a client connection.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1cEv13TimeoutValue
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.1.1.1.1.13.1

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## 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

### 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. MaxConnections


The maximum number of connections for the client connection manager.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1cEv12MaxConnections
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.1.1.1.1.12.1

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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 : *.1.3.6.1.4.1.13336.2.2.3.1.1.1*

SNMP Trap Number : *14*



The ClientReclaimPeriod message contains the following variables:

Table 1. ClientReclaimPeriod Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ReclaimPeriodValue</b></p> <p>The number of seconds to wait before the reclaim thread is run to reclaim an idle connection.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-HTTP-MIB::ciC1cEv14ReclaimPeriodValue</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.1.1.1.1.14.1</li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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** : .1.3.6.1.4.1.13336.2.2.3.1.1.1.1.2.2

### 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** : .1.3.6.1.4.1.13336.2.2.3.1.1.1.1.2.3

### 8. IntervalForRetries


The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1cEv2IntervalForRetries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.1.1.1.1.2.4

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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

---

The EndpointInformation message contains the following variables:


Table 1. EndpointInformation Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p>

- **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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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 loopback port values set on the JConsole.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1cEv9LoopBackString
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.1.1.1.1.9.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

---

The ReceiveActivate message contains the following variables:

Table 1. ReceiveActivate Message Variables


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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# 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></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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# 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** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. NumberOfRetryAttempts</b></p> <p>The total number of attempted retries.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-HTTP-MIB::ciC1cEv1NumberOfRetryAttempts</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.1.1.1.1.1.1</i></li></ul>
<p><b>6. Message</b></p>


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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## 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

### 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. StaleConnection


Value (True or False) of stale connection check.

- **Type** : Boolean
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1cEv15StaleConnection
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.1.1.1.1.15.1

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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.

**Parent topic:** [HTTP Module](#)

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <p>Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.</p>

- **Type** : OID
- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ContentEncodingValue</b></p> <p>The type of Content-Encoding in the response header.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-HTTP-MIB::ciC1oEv15ContentEncodingValue</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.1.1.2.1.15.1</li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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

---

The DecompressedEncoding message contains the following variables:




Table 1. DecompressedEncoding Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ContentEncodingValue</b></p> <p>Type of Content-Encoding header.</p> <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

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

The HttpListenerStop message contains the following variables:

Table 1. HttpListenerStop Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

## 5. PortNumber


Port number where the listener is stopped.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1oEv24PortNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.1.1.2.1.24.1

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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

### 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. ContentEncodingHeader


The type of Content-Encoding in the request header.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1oEv19ContentEncodingHeader
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.1.1.2.1.19.1

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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*

## Variables

---

The ReadInputHeaders message contains the following variables:


Table 1. ReadInputHeaders Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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# 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></ul>

- **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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# 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** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. URIValue</b></p> <p>The URI the server is listening on.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-HTTP-MIB::ciC1oEv23URIValue</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.1.1.2.1.23.1</li></ul>
<p><b>6. PortValue</b></p> <p>The port number the server is listening on.</p>

- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ContentEncodingValue</b></p> <p>The type of Content-Encoding header.</p> <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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></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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# 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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. HeaderVal</b></p> <p>The incorrect type.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-HTTP-MIB::ciC1oEv1HeaderVal</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.1.1.2.1.1.1</i></li></ul>
<p><b>6. HeaderName</b></p>




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

<p><b>1. SerialNumber</b></p> <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> : <i>CASTIRON-IA-MIB::ciIaPlatSerialNumber</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.1.3.3</i></li></ul>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <p>Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.</p>

- **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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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. ResponseDef


Response message received from the server. For example, OK for success.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1oEv8ResponseDef
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.1.1.2.1.8.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></ul>



- **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 received from the server. For example, 200 is for success.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-HTTP-MIB::ciC1oEv7ResponseCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.1.1.2.1.7.1

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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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. ContentEncoding</b></p> <p>The Content-Encoding in the server reply.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-HTTP-MIB::ciC1oEv2ContentEncoding</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.1.1.2.1.2.1</i></li></ul>
<p><b>6. AcceptEncoding</b></p>


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** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 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.

**Parent topic:** [HTTP Module](#)

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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

<p><b>1. SerialNumber</b></p> <p>The serial number of the appliance sending the trap.</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> </ul>
--

- **SNMP Object Name** : CASTIRON-IA-MIB::ciIaPlatSerialNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

Parent topic: [HTTP Internal Notifications](#)



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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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

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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

<b>1. SerialNumber</b>
The serial number of the appliance sending the trap.
<ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li><li>• <b>SNMP OID</b> : 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. 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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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## 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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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 nal\_replyunknownerror\_message.html

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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

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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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. TimeInterval</b></p> <p>The time interval between runs of the Socket Janitor.</p> <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

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.

Notification	Level	System	Description
<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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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::ciC15cEv1ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.15.1.1.1.1.1


#### 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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## 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*



## Variables

---

The CloseConnectionError message contains the following variables:

Table 1. CloseConnectionError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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](#)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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## 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.

- **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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## 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

### 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. NumberOfRetryAttempts

The total number of attempted retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15cEv2NumberOfRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.15.1.1.1.2.1

### 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

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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. ActivityName

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

Parent topic: [JD Edwards Connection Notifications](#)

## 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*

SNMP Trap Number : *5*

## Variables

---

The MakeConnectionError message contains the following variables:

Table 1. MakeConnectionError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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 Connection Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/jde/jde\\_connection\\_makeconnectionerror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/jde/jde_connection_makeconnectionerror_message.html)

# 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.
- [NumberFormatError](#)  
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.

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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

### 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 not successful.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15oEv4ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.15.1.2.1.4.1

### 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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 on\_activityerror\_message.html

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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. ActivityName


The activity which was successful.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15oEv3ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.15.1.2.1.3.1

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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

### 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 which failed.

- **Type** : String
- **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

Parent topic: [JD Edwards Operation Notifications](#)

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <p>Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.</p>

- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. FunctionName</b></p> <p>The name of function for which error occurred.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JDE-MIB::ciC15oEv11FunctionName</li></ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.15.1.2.1.11.1

## 6. FunctionCode

The code of function for which error occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JDE-MIB::ciC15oEv11FunctionCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.15.1.2.1.11.2

## 7. ModuleCode

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

**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\\_datastructureerror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/jde/jde_operation_datastructureerror_message.html)

## NumberFormatError

---

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::ciC15oNumberFormatErrorEv6*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.15.1.2*

SNMP Trap Number : 6

The NumberFormatError message contains the following variables:

Table 1. NumberFormatError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. PortNumber</b></p> <p>The invalid port number which was entered.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JDE-MIB::ciC15oEv6PortNumber</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.15.1.2.1.6.1</li></ul>

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\_numberformaterror\_message.html

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <p>Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.</p>



- **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

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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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 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

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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 Internal Notifications

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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.

- **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 Internal Notifications](#)

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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
<a href="#">ConnectionPoolError</a>	Warning	Orchestration	Error occurred while returning connection to the pool. Continuing the activity.
<a href="#">FactoryUnknownError</a>	Severe	Orchestration	Unknown exception while looking up the connection factory
<a href="#">FirstID</a>	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
<a href="#">GetConnectRetry</a>	Warning	Orchestration	The JMS operation failed while trying to connect to the server. This will cause a retry.
<a href="#">GetMarshallError</a>	Severe	Orchestration	Error occurred while marshalling the JMS message.
<a href="#">JMSError</a>	Severe	Orchestration	Error occurred while getting message from the provider.
<a href="#">LibraryNotInstalled</a>	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.
<a href="#">MakeConnectError</a>	Severe	Orchestration	Error occurred while creating the connection to destination.
<a href="#">NamingException</a>	Severe	Orchestration	Naming exception occurred while getting message from destination.
<a href="#">NoMessage</a>	Info	Orchestration	There is no message to be retrieved from the destination specified.
<a href="#">PollMessageError</a>	Severe	Orchestration	Error occurred while getting a message from queue.
<a href="#">PollMessageRetry</a>	Warning	Orchestration	The JMS operation failed while trying to connect to the server. This will cause a retry.
<a href="#">PoolFactoryError</a>	Severe	Orchestration	Error occurred while looking up for connection factory.
<a href="#">PoolReleaseError</a>	Severe	Orchestration	Error occurred while closing the connection pool.
<a href="#">PooledConnException</a>	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.
<a href="#">RecoveryInfo</a>	Info	Orchestration	The activity is recovering and its skipping message with specified id as its already delivered.




Notification	Level	System	Description
<a href="#">RecoveryInfo</a>	Info	Orchestration	The JMS connector is in recovery mode.
<a href="#">RestartError</a>	Severe	Orchestration	Error occurred while trying to restart the subscriber on the specified topic.
<a href="#">SendConnectRerty</a>	Warning	Orchestration	The JMS operation failed while trying to connect to the server. This will cause a retry.
<a href="#">SendMarshallError</a>	Severe	Orchestration	Error occurred while unmarshalling the JMS message.
<a href="#">SendMessageError</a>	Severe	Orchestration	Error occurred while sending message.
<a href="#">SendNamingException</a>	Severe	Orchestration	Naming exception occurred while sending message to destination.
<a href="#">SubscriberConfigError</a>	Severe	Orchestration	Error occurred while configuring the subscriber activity.
<a href="#">SubscriberConnect</a>	Severe	Orchestration	The JMS operation failed while trying to connect to the server.
<a href="#">SubscriberError</a>	Severe	Orchestration	Error occurred while subscribing the message. This message should be re-delivered manually from the Provider.
<a href="#">SubscriberNameError</a>	Severe	Orchestration	Naming exception occurred while configuring the subscriber activity.
<a href="#">SubscriberStartInfo</a>	Info	Orchestration	Subscriber started successfully for the specified topic.
<a href="#">UnsubscribeError</a>	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

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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*

The ConnectionPoolError message contains the following variables:

Table 1. ConnectionPoolError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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** : .1.3.6.1.4.1.13336.2.2.3.8.1.1.1.1.1

## 6. ErrorMessage

The error message specified in the error message

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv1ErrorMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.1.1.1.2

## 7. RetryAttemptNumber

The current number of retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv1RetryAttemptNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.1.1.1.3

## 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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## 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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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

## 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*

SNMP Trap Number : *7*


The PoolFactoryError message contains the following variables:

Table 1. PoolFactoryError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. FactoryName</b></p> <p>Name of the provider connection factory.</p> <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>
<p><b>6. Message</b></p> <p>Textual description of the error.</p> <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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ErrorCode</b></p> <p>The error code specified in the exception</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JMS-MIB::ciC8cEv12ErrorCode</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.8.1.1.1.12.1</li> </ul>
<p><b>6. ErrorMessage</b></p> <p>The error message specified in the exception</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-JMS-MIB::ciC8cEv12ErrorMessage</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.8.1.1.1.12.2</li> </ul>

Parent topic: [JMS Connection Notifications](#)

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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

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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

SNMP Trap Number : 2

## Variables

The SendConnectRerty message contains the following variables:

Table 1. SendConnectRerty Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ErrorCode</b></p> <p>The error code specified in the error message</p>

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv2ErrorCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.1.1.2.1

#### 6. ErrorMessage

The error message specified in the error message

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv2ErrorMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.1.1.2.2

#### 7. RetryAttemptNumber

The current number of retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8cEv2RetryAttemptNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.1.1.2.3

#### 8. TotalRetryAttempts

The specified number of attempts to connect to the server before stopping.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-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

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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

## 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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## JMS Operation Notifications

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvMessage</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.1.2.2</i></li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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. Destination

The destination from which message was to be retrieved.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8oEv2Destination
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.2.1.2.1

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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.

- **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. MessageID


The message ID specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8oEv6MessageID
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.8.1.2.1.6.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ErrorCode</b></p> <p>The error code specified in the error message</p>

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8oEv4ErrorCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.2.1.4.1


## 6. ErrorMessage

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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvMessage</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.1.2.2</i></li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>



- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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::ciC8oEv11TopicName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.2.1.11.1

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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

### 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. Topic

Name of the topic destination being unsubscribed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JMS-MIB::ciC8oEv10Topic
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.2.1.10.1

## 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

Parent topic: [JMS Operation Notifications](#)

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## JMS Internal Notifications

---

Provides a comprehensive list of internal notifications sent from the JMS Module.

- [GetMarshalError](#)  
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.
- [SendMarshalError](#)  
Error occurred while unmarshalling the JMS message.

**Parent topic:** [JMS Module](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/jms/jms\\_internal\\_notifications\\_list.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/jms/jms_internal_notifications_list.html)

## GetMarshalError

---

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::ciC8iGetMarshalErrorEv1*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.8.1.3*

## Variables

---

The GetMarshallError message contains the following variables:

Table 1. GetMarshallError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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](#)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>



Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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::ciC8iEv2ErrorCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.8.1.3.1.2.1

### 6. ErrorMessage


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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></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

Parent topic: [JMS Internal Notifications](#)

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# SendMarshalError

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::ciC8iSendMarshalErrorEv3*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.8.1.3*

SNMP Trap Number : 3

## Variables

The SendMarshalError message contains the following variables:

Table 1. SendMarshalError 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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## JSON Module

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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.
<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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

## 5. ErrorMessage


The error message returned while parsing the JSON.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-JSON-MIB::ciC21oEv1ErrorMessage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.21.1.2.1.1.1

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

### 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: [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*

## Variables


---

The TransformError message contains the following variables:

Table 1. TransformError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/json/json\\_operation\\_transformerror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/json/json_operation_transformerror_message.html)

## 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	Orchestration	The Log activity failed.

- [Log Operation Notifications](#)  
Provides a comprehensive list of operation notifications sent from the Log Module.

---

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

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/logactivity/about\\_the\\_logactivity\\_module.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/logactivity/about_the_logactivity_module.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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. ErrorMsg

The log activity failed due to this error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-LOGACTIVITY-MIB::ciC25oEv1ErrorMsg
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.25.1.2.1.1.1

Parent topic: [Log Operation Notifications](#)

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## 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
<a href="#">AttachmentNumber</a>	Info	Orchestration	Activity is processing the specified attachment number.
<a href="#">AttachmentsFound</a>	Info	Orchestration	The activity found specified number of attachments.
<a href="#">AutoGeneratedBody</a>	Info	Orchestration	No boundary value was specified for multiple parts attachment. Using auto-generated boundary.


Notification	Level	System	Description
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.
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.

Notification	Level	System	Description
<a href="#">TransferEncMissing</a>	Warning	Orchestration	Content-Transfer-Encoding value is missing for specified attachment number . Guessing based on Content-Type and charset values.
<a href="#">TransferEncodingError</a>	Severe	Orchestration	Content-Transfer-Encoding specified in Composite media type cannot be any other apart from 7bit, 8bit or binary.
<a href="#">TransferEncodingValue</a>	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.
- [MimeTypeMapped](#)  
Optional input parameter 'mimeheader' is mapped.
- [MimeTypeNotMapped](#)  
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.
- [TransferEncodingError](#)  
Content-Transfer-Encoding specified in Composite media type cannot be any other apart from 7bit, 8bit or binary.
- [TransferEncodingValue](#)  
Activity found Content-Transfer-Encoding.

**Parent topic:** [MIME Module](#)

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# 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*

SNMP Trap Number : 3

## Variables

---

The AttachmentNumber message contains the following variables:

Table 1. AttachmentNumber Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

## 5. AttachmentNumber


The attachment number activity is currently processing.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-MIME-MIB::ciC10oEv3AttachmentNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.10.1.2.1.3.1

Parent topic: [MIME Operation Notifications](#)

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# 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

---

The AttachmentsFound message contains the following variables:

Table 1. AttachmentsFound 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. NumberOfAttach


The number of attachments found by the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MIME-MIB::ciC10oEv10NumberOfAttach
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.10.1.2.1.10.1

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Boundary</b></p> <p>The auto generated body which is used.</p> <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>

Parent topic: [MIME Operation Notifications](#)

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 ration\_autogeneratedbody\_message.html

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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

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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

### 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 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <p>Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.</p>

- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Boundary</b></p> <p>The boundary parameter found in the mime message.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>

- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3


### 5. MainType

Main type specified in the serialize activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MIME-MIB::ciC10oEv22MainType
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.10.1.2.1.22.1

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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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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 ration\_noattachments\_message.html

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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

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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.

- **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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. NumberOfParts</b></p> <p>The number of parts found.</p> <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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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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## 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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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> : <i>CASTIRON-IA-MIB::ciIaPlatSerialNumber</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.1.3.3</i></li></ul>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. SubType</b></p> <p>The sub type found in the content type of message.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-MIME-MIB::ciC10oEv6SubType</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.10.1.2.1.6.1</i></li></ul>

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/mime/mime\\_operation\\_subtype\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/mime/mime_operation_subtype_message.html)

## TransferEncChanged

---

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::ciC10oTransferEncChangedEv26*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.10.1.2*

SNMP Trap Number : *26*

## Variables

---

The TransferEncChanged message contains the following variables:

Table 1. TransferEncChanged Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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

Parent topic: [MIME Operation Notifications](#)

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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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. MainType</b></p> <p>The main type found in the content type of message.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-MIME-MIB::ciC10oEv16MainType</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.10.1.2.1.16.1</i></li></ul>
<p><b>6. SubType</b></p>


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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <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

### 5. AttachmentNumber


The attachment number for which content transfer encoding is missing.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MIME-MIB::ciC10oEv28AttachmentNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.10.1.2.1.28.1

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## TransferEncodingError

---

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 TransferEncodingError message contains the following variables:

Table 1. TransferEncodingError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. MediaType</b></p> <p>Composite Media type specified in the activity.</p> <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>

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ration\_transferencodingerror\_message.html

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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. 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

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

Parent topic: [MIME Internal Notifications](#)

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 ernal\_inputbodynull\_message.html

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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:** [MIME Internal Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/mime/mime\\_internal\\_parseexception\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/mime/mime_internal_parseexception_message.html)

## Maestro Module

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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

Notification	Level	System	Description
<a href="#">AbandonedJobs</a>	Warning	Orchestration	A timeout occurred while waiting for jobs to stop and some jobs were abandoned.
<a href="#">ActInvalidLicense (Deprecated)</a>	Severe	Orchestration	<b>Deprecated.</b>
<a href="#">ActivityFailedError</a>	Severe	Orchestration	Encountered fault of specified type, please see rest of the log for more information.

Notification	Level	System	Description
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.


Notification	Level	System	Description
LargeVariable	Warning	Orchestration	Specified variable is over the limit and is too large to log.
LicenseExpireImminent (Deprecated)	Severe	Orchestration	<b>Deprecated.</b>
LicenseExpireSoon (Deprecated)	Warning	Orchestration	<b>Deprecated.</b>
LicenseExpired (Deprecated)	Severe	Orchestration	<b>Deprecated.</b>
LicenseInvalid (Deprecated)	Severe	Orchestration	<b>Deprecated.</b>
LoaderCancel	Severe	Orchestration	Cancel of job with specified ID of specified orchestration.
LoaderDelete	Severe	Orchestration	Delete of specified orchestration failed.
LoaderDeploy	Severe	Orchestration	Deployment of specified orchestration failed.
LoaderPublish	Severe	Orchestration	Publish of specified configuration failed.
LoaderStart	Severe	Orchestration	Start of the specified orchestration failed.
LoaderStop	Severe	Orchestration	Stop of the specified orchestration failed.
LoaderSuspend	Severe	Orchestration	Suspend of the specified orchestration failed.
LoaderunDeploy	Severe	Orchestration	Undeploy of specified orchestration failed.
MBeanRegister	Severe	Orchestration	Could not register specified object with MBean server.
MBeanUnregister	Severe	Orchestration	Could not unregister specified object with MBean server.
MaxSeqNum	Warning	Orchestration	Exceeded maximum number of activity events for a job.
ModuleConfig	Severe	Orchestration	Could not read module configuration.
MonitorQuery	Severe	Orchestration	Could not query for monitor data.
MonitorVariable	Warning	Orchestration	Could not log monitor variable.
MonitorVariables	Warning	Orchestration	Could not log monitor variables.
MontiorEvents	Severe	Orchestration	Could not log monitor events.
MultipleActFactory	Severe	Orchestration	Activity Factory with specified name and version has multiple registrations, and hence not loading it.
NoActivityFactory	Severe	Orchestration	Activity Factory with specified name and version not registered.
NotDeployed	Severe	Orchestration	Orchestration not deployed.
NotDocParameter	Severe	Orchestration	Specified parameter is not an XML document.
NotDocVariable	Severe	Orchestration	Specified variable is not an XML document.
NotStopped	Severe	Orchestration	Could not undeploy as the orchestration is not stopped.

Notification	Level	System	Description
NotSuspend	Severe	Orchestration	Could not suspend as the orchestration is not running.
NullParam	Severe	Orchestration	Specified parameter is null.
NullVariable	Severe	Orchestration	Specified variable is null.
OSGISyntaxError	Severe	Orchestration	Invalid OSGI query syntax provided.
OrchCompileError	Severe	Orchestration	Unable to compile the specified orchestration.
OutputMap	Severe	Orchestration	Could not perform output map.
OutputMapXPath	Severe	Orchestration	Could not perform output map expression.
OutputMapXSLT	Severe	Orchestration	Could not perform output map transform.
ParamIndex	Warning	Orchestration	Parameter at specified index is already set.
ProgramDestroy	Severe	Orchestration	Program in non terminal state being destroyed.
ProgramStart	Severe	Orchestration	Cannot start an orchestration that is in transient state.
SocketNoReply	Warning	Orchestration	Could not receive socket reply.
SplitError	Severe	Orchestration	Error occurred in split activity.
SwitchExpEmpty	Severe	Orchestration	The condition provided for if-then activity and case label is empty.
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.

**Parent topic:** [Maestro Module](#)

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# 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>


## 5. NumberOfAbandonedJobs

The number of abandoned jobs.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv87NumberOfAbandonedJobs
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.87.1

Parent topic: [Maestro Operation Notifications](#)

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## 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

### 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::ciC20oEv35ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.35.1

### 6. ActivityVersion

The version of the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv35ActivityVersion
- **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

Parent topic: [Maestro Operation Notifications](#)

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <p>Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.</p>

- **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

**Parent topic:** [Maestro Operation Notifications](#)

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# AlreadyDeployed

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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

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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** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvMessage</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.1.2.2</i></li></ul>

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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::ciC2oCallContextDestroyEv80*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.20.1.2*

SNMP Trap Number : *80*

## Variables

The CallContextDestroy message contains the following variables:

Table 1. CallContextDestroy Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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. TaskID

The task ID.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv80TaskID
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.80.1

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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

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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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ActivityName</b></p> <p>The name of the activity.</p>

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv63ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.63.1

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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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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## 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

### 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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# CloseReader

---

Could not close reader.

Level : *Warning*

Log Message : *Could not close reader*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-MAESTRO-MIB::ciC2oCloseReaderEv66*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.20.1.2*

## Variables

---

The CloseReader message contains the following variables:


Table 1. CloseReader Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>



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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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::ciC20oEv1ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.1.1

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/maestro/maestro\\_operation\\_deactivatefailed\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/maestro/maestro_operation_deactivatefailed_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

## 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** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 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*

## Variables

---

The EnqueueFailed message contains the following variables:

Table 1. EnqueueFailed Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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 Operation Notifications](#)

## 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

---

The EntryPath message contains the following variables:

Table 1. EntryPath Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>



Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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::ciC20oEv38ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.38.1

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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

### 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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# 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::ciC2oErrorTwoPhaseEv59*

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

Parent topic: [Maestro Operation Notifications](#)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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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## 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** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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## 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

<b>1. SerialNumber</b>  The serial number of the appliance sending the trap. <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <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. 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

### 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 required parameter name for which input maps are missing.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv13ParamName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.13.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

## 5. ExpressionName


The name of the expression.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv14ExpressionName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.14.1

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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

### 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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## 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*

## Variables

---

The InvokeError message contains the following variables:

Table 1. InvokeError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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 Operation Notifications](#)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ParamName</b></p> <p>The parameter name.</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv71ParamName</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.71.1</li> </ul>
<p><b>6. Length</b></p> <p>The limit for the size.</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv71Length</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.71.2</li> </ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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. VariableName

The variable name.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv86VariableName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.86.1

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/maestro/maestro\\_operation\\_largenonpersistentvar\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/maestro/maestro_operation_largenonpersistentvar_message.html)

## 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

### 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::ciC20oEv72ParamName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.72.1


## 6. Length

The limit for the size.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv72Length
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.72.2

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <p>Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.</p>

- **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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# 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

### 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. 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::ciC2oLicenseExpireImminentEv26*

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></ul>



- **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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## LicenseExpireSoon (Deprecated)

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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

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The LicenseExpireSoon message contains the following variables:

Table 1. LicenseExpireSoon Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. BundleName</b></p> <p>The bundle name for which license expires soon.</p> <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>
<p><b>6. Date</b></p> <p>The date at which license expires.</p> <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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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 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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. BundleName</b></p> <p>The bundle for which license is invalid.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-MAESTRO-MIB::ciC20oEv28BundleName</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.20.1.2.1.28.1</i></li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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. 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/maestro/maestro\\_operation\\_loadercancel\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/maestro/maestro_operation_loadercancel_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. OrchName</b></p> <p>The orchestration name for which suspend failed.</p> <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>



## 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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## 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

---

The LoaderDeploy message contains the following variables:

Table 1. LoaderDeploy 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 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::ciC2oLoaderPublishEv18*

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ConfigName</b></p> <p>The configuration name for which loading failed.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>

- **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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## 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** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 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::ciC2oLoaderStopEv22*

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. OrchName</b></p> <p>The orchestration name for which stop failed.</p>

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv22OrchName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.22.1


## 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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# 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

### 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 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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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. OrchName</b></p> <p>The orchestration name for which undeploy failed.</p>

- **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** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 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

The MBeanUnregister message contains the following variables:

Table 1. MBeanUnregister Message Variables

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. ObjectName</b></p> <p>The object name which could not be unregistered with MBean server.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-MAESTRO-MIB::ciC20oEv31ObjectName</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.20.1.2.1.31.1</i></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

The MaxSeqNum message contains the following variables:

Table 1. MaxSeqNum Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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

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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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></ul>

- **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::ciC20oEv75VariableName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.75.1

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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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ActivityName</b></p> <p>The name of the activity.</p>

- **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


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. OrchName</b></p> <p>The name of the orchestration not deployed.</p>



- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv39OrchName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.39.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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 name of the parameter which is not an XML document.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv40ParamName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.40.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ParamName</b></p> <p>The name of the variable which is not an XML document.</p> <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>

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## NotStopped

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

## 5. State

The current state of the orchestration.

- **Type** : String
- **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::ciC2oEv42OrchName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.42.1

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Specified parameter is null.

Level : *Severe*

Log Message : *Parameter {ParamName} is null*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-MAESTRO-MIB::ciC2oNullParamEv44*

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ParamName</b></p> <p>The param name which is null.</p>

- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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

---

The OSGISyntaxError message contains the following variables:


Table 1. OSGISyntaxError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></ul>

- **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 was not compiled.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv7OrchName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.7.1

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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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvMessage</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.1.2.2</i></li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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. 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

<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. 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: {ConfigURI}*

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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. ConfigURL

The config URL of the program being destroyed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv50ConfigURL
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.50.1

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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

### 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. State


The current state of the orchestration.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv51State
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.20.1.2.1.51.1

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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::ciC2oSocketNoReplyEv70*

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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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# 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

### 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 name of the activity.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv54ActivityName
- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></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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## 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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. OrchName</b></p> <p>The specified orchestration name.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-MAESTRO-MIB::ciC20oEv84OrchName</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.20.1.2.1.84.1</i></li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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. TaskName

The task name.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv55TaskName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.55.1

#### 6. State


The state of the task.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv55State
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.55.2

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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*

## Variables

---

The TaskRemove message contains the following variables:

Table 1. TaskRemove Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. TaskID</b></p> <p>The task ID for the task which was not removed.</p> <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::ciC2oTaskStartEv82*

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>



Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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::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

### 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. 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></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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## TaskStatusChanged

Job status changed.

Level : *Info*

Log Message : *Job status changed to {Status}*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-MAESTRO-MIB::ciC2oTaskStatusChangedEv83*

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. OrchName</b></p> <p>The orchestration name.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv88OrchName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.88.1</li></ul>

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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

---

The VariableNull message contains the following variables:

Table 1. VariableNull Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3


## 5. VarName

The variable name which is null.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MAESTRO-MIB::ciC20oEv77VarName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.77.1

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# 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

### 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::ciC20oEv61ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.20.1.2.1.61.1

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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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. ConditionSpecified</b></p> <p>The condition specified for the while expression.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-MAESTRO-MIB::ciC20oEv60ConditionSpecified</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.20.1.2.1.60.1</i></li></ul>
<p><b>6. Message</b></p>


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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## 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

### 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::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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## 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.

- **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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# 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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\\_internal\\_uncaughterror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/maestro/maestro_internal_uncaughterror_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>



- **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: [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.

Notification	Level	System	Description
<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.
<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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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. NumberOfRetryAttempts

The total number of attempted retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-NETSUITE-MIB::ciC11cEv2NumberOfRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.11.1.1.1.2.1


#### 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: [NetSuite Connection Notifications](#)

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## 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*

## Variables

---

The ConnectionPoolError message contains the following variables:

Table 1. ConnectionPoolError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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](#)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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-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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <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

### 5. SoapFaultCode

The soap fault returned by the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-NETSUITE-MIB::ciC11oEv2SoapFaultCode
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.11.1.2.1.2.1

### 6. SoapFaultMessage


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


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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

Parent topic: [NetSuite Operation Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/netsuite/netsuite\\_operation\\_transformationerror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/netsuite/netsuite_operation_transformationerror_message.html)

# NetSuite Internal Notifications

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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

SNMP Trap Number : 1

## Variables

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The IOError message contains the following variables:

Table 1. IOError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\_reference.doc/netsuite/netsuite\_internal\_ioerror\_message.html

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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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## 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

### 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:** [NetSuite Internal Notifications](#)

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# 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


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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

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
<a href="#">ActivateFailureBlank</a>	Severe	Orchestration	Activity could not be started as the specified name was blank.
<a href="#">ActivateSuccess</a>	Info	Orchestration	Activity name specified was successfully activated.
<a href="#">ActivateUnsuccessful</a>	Info	Orchestration	Error occurred while connecting to PeopleSoft system while activating activity. Activity activated, will try to establish connectivity at activity execute time.
<a href="#">ActivityFailure</a>	Severe	Orchestration	Activity name specified failed to execute.
<a href="#">ActivitySuccessful</a>	Info	Orchestration	Activity name specified executed successfully. The response output parameter was successfully generated.
<a href="#">ConfigURI</a>	Info	Orchestration	Information regarding the URI and Port where the PeopleSoft Receive is listening.
<a href="#">ConnectionError</a>	Severe	Orchestration	The peoplesoft operation failed because a connection to the server could not be established.
<a href="#">ConnectionPoolError</a>	Warning	Orchestration	Error occurred while returning connection to the pool. Continuing the activity.


<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
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.
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.

Notification	Level	System	Description
<a href="#">SetupInfo</a>	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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## Feedback | Notices

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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. 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. NumberOfRetryAttempts</b></p> <p>The total number of attempted retries.</p> <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>
<p><b>6. Message</b></p> <p>Textual description of the error.</p> <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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/peoplesoft/peoplesoft\\_connection\\_connectionerror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/peoplesoft/peoplesoft_connection_connectionerror_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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. 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 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-PEOPLESOFT-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



### 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 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

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## 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

### 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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# 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p>

- **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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## 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-PEOPLESOFT-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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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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## 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-PEOPLESOFT-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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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## 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-PEOPLESOFT-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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></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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# 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.

**Parent topic:** [PeopleSoft Module](#)

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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-PEOPLESOFT-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.

- **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 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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

### 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 which failed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv4ActivityName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.9.1.2.1.4.1

## 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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></ul>

- **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 succeeded.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv3ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.3.1

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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

### 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. UriValue

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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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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*

SNMP Trap Number : *10*

## Variables

---

The DeleteFail message contains the following variables:


Table 1. DeleteFail Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ItemNumber</b></p> <p>Item number which is out of range.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li></ul>

- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv10ItemNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.10.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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 could not find any record.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv7ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.7.1

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/peoplesoft/peoplesoft\\_operation\\_getnoretreturn\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/peoplesoft/peoplesoft_operation_getnoretreturn_message.html)

## ItemNumberBlank

---

Item number returned is empty.

Level : *Warning*

Log Message : *ITEM\_NO is empty. Returning false*

System : *Orchestration*

SNMP Name : *CASTIRON-COMP-PEOPLESOFT-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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. MessageName</b></p> <p>The message name set in the activity.</p>

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv14MessageName
- **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

## Variables

---

The NoOperationOnRecord message contains the following variables:

Table 1. NoOperationOnRecord Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. OperationName</b></p> <p>Operation name that could not be specified.</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv8OperationName</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.8.1</li> </ul>

Parent topic: [PeopleSoft Operation Notifications](#)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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. ItemNumber

Item number which is out of range.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv9ItemNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.9.1

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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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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-PEOPLESOFT-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.

- **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. From

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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:** [PeopleSoft Operation Notifications](#)

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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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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> : <i>CASTIRON-IA-MIB::ciIaPlatSerialNumber</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.1.3.3</i></li></ul>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvMessage</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.1.2.2</i></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-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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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. MessageType

Type of the message received.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PEOPLESOFT-MIB::ciC9oEv1MessageType
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.9.1.2.1.1.1

#### 6. Message


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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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. 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*


The SetupInfo message contains the following variables:

Table 1. SetupInfo Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ActivityName</b></p> <p>The activity name which faced the error.</p> <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>
<p><b>6. Message</b></p> <p>Textual description of the error.</p> <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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## 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
<a href="#">AccessViolation</a>	Info	Security	An authenticated user attempted to access a section of the Cast Iron product which would require additional authorization.
<a href="#">AuthFailure</a>	Severe	Security	An attempt to authenticate with the appliance failed.
<a href="#">AuthLogOut</a>	Info	Security	Event showing logging out of the user.
<a href="#">AuthSuccess</a>	Info	Security	Attempt to authenticate with the appliance was successful.
<a href="#">DiskUsageCritOk</a>	Info	Resources	Disk space usage is below the critical threshold.
<a href="#">DiskUsageCritical</a>	Severe	Resources	Disk space usage has exceeded the critical threshold.
<a href="#">DiskUsageWarnOk</a>	Info	Resources	Disk space usage is below the warning threshold.
<a href="#">DiskUsageWarning</a>	Warning	Resources	Disk space usage has exceeded the warning threshold.
<a href="#">FanFailed</a>	Severe	Hardware	A cooling fan is not operating correctly.
<a href="#">FanRestored</a>	Info	Hardware	A cooling fan has resumed proper operation.
<a href="#">GrantRole</a>	Info	Security	grant new role created.
<a href="#">GroupCreated</a>	Info	Security	New group created.
<a href="#">GroupDeleted</a>	Info	Security	Group deleted.

Notification	Level	System	Description
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.
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.


Notification	Level	System	Description
<a href="#">OrcmonPurgeByTimeNP</a>	Info	Resources	Job log purge has been triggered based on the amount of time since collection began.
<a href="#">OrcmonPurgeFailed</a>	Severe	Resources	Job log purge/archive failed.
<a href="#">PowerInterrupted</a>	Warning	Hardware	A power module has reported that it does not have power.
<a href="#">PowerRestored</a>	Info	Hardware	A power module has reported that power has been restored.
<a href="#">RaidArrayDegraded</a>	Severe	Hardware	The RAID array on the appliance is degraded.
<a href="#">RaidArrayOffline</a>	Severe	Hardware	The RAID array on the appliance is offline. Please contact Cast Iron Support.
<a href="#">RaidArrayOptimal</a>	Info	Hardware	The RAID array on the appliance is optimal.
<a href="#">RaidDiskFailed</a>	Severe	Hardware	A disk on the appliance has failed.
<a href="#">RaidDiskOnline</a>	Info	Hardware	A disk on the appliance is now online and working properly.
<a href="#">RaidDiskRebuilding</a>	Info	Hardware	A disk on the appliance is rebuilding.
<a href="#">RevokeRole</a>	Info	Security	User role revoked.
<a href="#">SwapUsageCritOk</a>	Info	Resources	Swap space usage is below the critical threshold.
<a href="#">SwapUsageCritical</a>	Severe	Resources	Swap space usage has exceeded the critical threshold.
<a href="#">SwapUsageWarnOk</a>	Info	Resources	Swap space usage is below the warning threshold.
<a href="#">SwapUsageWarning</a>	Warning	Resources	Swap space usage has exceeded the warning threshold.
<a href="#">SystemInitComplete</a>	Info	Hardware	The appliance is finished initializing after reboot.
<a href="#">SystemInitStarted</a>	Info	Hardware	The appliance is initializing after being shut down or rebooted.
<a href="#">SystemRecoveryReboot</a>	Warning	Hardware	Operational failure was detected. System is rebooting to recover.
<a href="#">SystemRecoveryRestart</a>	Warning	Hardware	Operational failure was detected. System is restarting to recover.
<a href="#">TemperatureOutOfRange</a>	Severe	Hardware	A monitored temperature within the appliance is too high, which could lead to future failures.
<a href="#">TemperatureRestored</a>	Info	Hardware	A temperature which was previously out of range (too hot) has come back into range
<a href="#">UpdateStatus</a>	Info	Security	Update user status as active or inactive.
<a href="#">UpdateUser</a>	Info	Security	Update display name of a user.
<a href="#">UpgradeComplete</a>	Info	Hardware	The Cast Iron firmware was successfully upgraded.
<a href="#">UpgradeFailed</a>	Severe	Hardware	The attempt to upgrade the Cast Iron firmware has failed.
<a href="#">UserCreated</a>	Info	Security	New user created.

Notification	Level	System	Description
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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. FanID</b></p> <p>Identifier associated with the failed fan.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-PLATFORM-MIB::ciC23hEv1FanID</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.23.1.4.1.1.1</i></li></ul>
<p><b>4. AffectedAppliance</b></p> <p>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.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.1.2.5</i></li></ul>
<p><b>5. CurrentSpeed</b></p> <p>Current speed of the fan in RPM.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-PLATFORM-MIB::ciC23hEv1CurrentSpeed</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.23.1.4.1.1.3</i></li></ul>
<p><b>6. MinimumSpeed</b></p>




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

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rm\\_hardware\\_fanfailed\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_hardware_fanfailed_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p>

- **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::ciC23hEv2FanID
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.2.1

### 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

### 5. CurrentSpeed

Current speed of the fan in RPM.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv2CurrentSpeed
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.2.3


### 6. MinimumSpeed

Minimum speed of the fan in RPM.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv2MinimumSpeed
- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. AffectedAppliance</b></p> <p>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.</p> <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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. AffectedAppliance</b></p> <p>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.</p> <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


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. AffectedAppliance</b></p>

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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p>

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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rm\\_hardware\\_intrusioninform\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_hardware_intrusioninform_message.html)

## 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.

- **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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# 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*



The PowerInterrupted message contains the following variables:


Table 1. PowerInterrupted Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. PowerID</b></p> <p>Identifier associated with the monitored power module.</p> <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>
<p><b>4. AffectedAppliance</b></p> <p>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.</p> <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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/platform/platfo\\_rm\\_hardware\\_powerinterrupted\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo_rm_hardware_powerinterrupted_message.html)

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


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The PowerRestored message contains the following variables:

Table 1. PowerRestored Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. PowerID</b></p> <p>Identifier associated with the monitored power module.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv6PowerID</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.6.1</li></ul>
<p><b>4. AffectedAppliance</b></p> <p>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.</p> <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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. AffectedAppliance</b></p> <p>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.</p>

- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>


### 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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## 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

### 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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# 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

### 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. DiskID

Identifier associated with the associated disk.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv12DiskID
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.12.1


## 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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# 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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. DiskID</b></p> <p>Identifier associated with the associated disk.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-PLATFORM-MIB::ciC23hEv14DiskID</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.23.1.4.1.14.1</i></li></ul>
<p><b>4. AffectedAppliance</b></p> <p>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.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvAffectedAppliance</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.1.2.5</i></li></ul>

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## RaidDiskRebuilding

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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


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. DiskID</b></p> <p>Identifier associated with the associated disk.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv13DiskID</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.13.1</li></ul>
<p><b>4. AffectedAppliance</b></p>

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** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 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*

## Variables

The SystemRecoveryReboot message contains the following variables:


Table 1. SystemRecoveryReboot Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. AffectedAppliance</b></p> <p>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.</p> <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>
<p><b>4. Days</b></p> <p>The number of days the system has been up since the last reboot.</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv18Days</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.18.2</li> </ul>
<p><b>5. Hours</b></p> <p>The number of hours the system has been up since the last reboot.</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv18Hours</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.18.3</li> </ul>
<p><b>6. Minutes</b></p> <p>The number of minutes the system has been up since the last reboot.</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv18Minutes</li> </ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.18.4

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rm\\_hardware\\_systemrecoveryreboot\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_hardware_systemrecoveryreboot_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. AffectedAppliance</b></p>


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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p>

- **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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## Temperature Restored

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. TempID</b></p> <p>Identifier associated with the monitored temperature.</p> <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>
<p><b>4. AffectedAppliance</b></p> <p>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.</p> <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>
<p><b>5. CurrentTemperature</b></p> <p>Current temperature in degrees Celcius.</p>

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv4CurrentTemperature
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.4.3


## 6. MaximumTemperature

Maximum allowed temperature in degrees Celcius.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv4MaximumTemperature
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.4.4

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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

### 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 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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rm\\_hardware\\_upgradecomplete\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_hardware_upgradecomplete_message.html)

# 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. AffectedAppliance</b></p> <p>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.</p> <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>
<p><b>4. OldVersion</b></p> <p>The version of firmware which is currently operating on the Cast Iron appliance.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv17OldVersion</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.17.2</li></ul>
<p><b>5. NewVersion</b></p> <p>The version of the attempted firmware upgrade.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23hEv17NewVersion</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.4.1.17.3</li></ul>

## 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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rm\\_hardware\\_upgradefailed\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_hardware_upgradefailed_message.html)

# 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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rm\\_network\\_notifications\\_list.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_network_notifications_list.html)

# 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 hostname 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. Hostname</b></p> <p>Hostname of the appliance as added to /etc/hosts.</p> <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>
<p><b>4. IPAddress</b></p> <p>IP Address of the appliance as added to /etc/hosts.</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23nEv3IPAddress</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.5.1.3.2</li> </ul>

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rm\\_network\\_networkautohost\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_network_networkautohost_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. DestinationIP</b></p>

IP address or netmask defining the requested route.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23nEv4DestinationIP
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.5.1.4.1

#### 4. LinkName


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

**Parent topic:** [Platform Network Notifications](#)

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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

### 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::ciC23nEv2LinkName
- **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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rm\\_network\\_networklinkdown\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_network_networklinkdown_message.html)

# 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. LinkName</b></p> <p>Name of the network link.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23nEv1LinkName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.5.1.1.1</li></ul>
<p><b>4. AffectedAppliance</b></p> <p>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.</p> <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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# 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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rm\\_resources\\_notifications\\_list.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_resources_notifications_list.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>

### 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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rm\\_resources\\_diskusagecritok\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_resources_diskusagecritok_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. Disk</b></p> <p>Name of the disk being monitored</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv8Disk</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.8.1</li></ul>
<p><b>4. Threshold</b></p> <p>Disk usage threshold</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv8Threshold</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.8.2</li></ul>
<p><b>5. Usage</b></p> <p>Current disk usage</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv8Usage</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.8.3</li></ul>

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rm\\_resources\\_diskusagecritical\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_resources_diskusagecritical_message.html)

# 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*

SNMP Trap Number : *5*

## Variables

---

The DiskUsageWarnOk message contains the following variables:

Table 1. DiskUsageWarnOk Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. Disk</b></p> <p>Name of the disk being monitored</p> <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>
<p><b>4. Threshold</b></p> <p>Disk usage threshold</p> <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>
<p><b>5. Usage</b></p>


Current disk usage

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv5Usage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.5.3

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rm\\_resources\\_diskusagewarnok\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_resources_diskusagewarnok_message.html)

# 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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></ul>



- **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::ciC23rEv7Disk
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.7.1

### 4. Threshold

Disk usage threshold

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv7Threshold
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.7.2

### 5. Usage


Current disk usage

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv7Usage
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.7.3

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>

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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

### 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. LargeFile

Large file on disk

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv24LargeFile
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.24.1

### 4. FileSize


Size of file in megabytes

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv24FileSize
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.24.2

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rm\\_resources\\_largefilewarning\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_resources_largefilewarning_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. Message</b></p> <p>Textual description of the error.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvMessage</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.1.2.2</i></li></ul>

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rm\\_resources\\_orcmonarchiveerror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_resources_orcmonarchiveerror_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. Message</b></p> <p>Textual description of the error.</p> <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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rm\\_resources\\_orcmondatabaseerror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_resources_orcmondatabaseerror_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. DiskAvailPct</b></p> <p>Percentage of disk space which is currently available.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv20DiskAvailPct</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.20.1</li></ul>
<p><b>4. DiskAvailTrigger</b></p> <p>Percentage of available disk space which for triggers a purge.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv20DiskAvailTrigger</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.20.2</li></ul>

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rm\\_resources\\_orcmondiskfull\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_resources_orcmondiskfull_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. DiskAvailPct</b></p> <p>Percentage of disk space which is currently available.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv21DiskAvailPct</li></ul>

- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.21.1

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rm\\_resources\\_orcmondiskfullnopurge\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_resources_orcmondiskfullnopurge_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. DiskAvailPct</b></p>



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 for 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

<ul style="list-style-type: none"> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<p><b>2. Severity</b></p> <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>
<p><b>3. Message</b></p> <p>Textual description of the error.</p> <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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rm_resources_orcmonexporterror_message.html)

# 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

<p><b>1. SerialNumber</b></p>
-------------------------------

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. Host

Remote FTP host

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv16Host
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.16.1

## 4. Port

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. Filename</b></p> <p>Name of the local archive file.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv15Filename</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.15.1</li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. NumExported</b></p> <p>Number of jobs exported.</p> <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


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. NumCompleted</b></p> <p>Number of completed jobs currently stored in the job log.</p> <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>
<p><b>4. Threshold</b></p> <p>Number of stored completed jobs which triggered a job purge.</p>



- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv12Threshold
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.12.2

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rm\\_resources\\_orcmonpurgebycompl\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_resources_orcmonpurgebycompl_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>

### 3. NumErrored

Number of errored jobs currently stored in the job log.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv13NumErrored
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.13.1

### 4. Threshold


Number of stored errored jobs which triggered a job purge.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv13Threshold
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.13.2

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rm\\_resources\\_orcmonpurgebyerrored\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_resources_orcmonpurgebyerrored_message.html)

## 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

### 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. PurgeTime

Scheduled time for the purge.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv11PurgeTime
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.11.1

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rm\\_resources\\_orcmonpurgebytime\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_resources_orcmonpurgebytime_message.html)

# 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::ciC23rOrcmonPurgeByTimeNPEv10*

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.

- **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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# 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

### 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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# 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

### 1. SerialNumber

The serial number of the appliance sending the trap.


- **Type** : String

<ul style="list-style-type: none"> <li>• <b>SNMP Object Name</b> : CASTIRON-IA-MIB::ciIaPlatSerialNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3</li> </ul>
<p><b>2. Severity</b></p> <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>
<p><b>3. Threshold</b></p> <p>Swap usage threshold</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv2Threshold</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.2.1</li> </ul>
<p><b>4. Usage</b></p> <p>Current swap usage</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : Integer</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv2Usage</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.2.2</li> </ul>

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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*

The SwapUsageCritical message contains the following variables:


Table 1. SwapUsageCritical Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. Threshold</b></p> <p>Swap usage threshold</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv4Threshold</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.4.1</li></ul>
<p><b>4. Usage</b></p> <p>Current swap usage</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv4Usage</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.4.2</li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. Threshold</b></p> <p>Swap usage threshold</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv1Threshold</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.1.1</li></ul>
<p><b>4. Usage</b></p> <p>Current swap usage</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv1Usage</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.1.2</li></ul>

Parent topic: [Platform Resources Notifications](#)



## 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


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. Threshold</b></p> <p>Swap usage threshold</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23rEv3Threshold</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.6.1.3.1</li></ul>
<p><b>4. Usage</b></p> <p>Current swap usage</p>

- **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

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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.

**Parent topic:** [Platform Module](#)

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. Username</b></p> <p>The name of the user who failed to log in.</p> <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>
<p><b>4. Target</b></p>

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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/platform/platform\\_security\\_authfailure\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platform_security_authfailure_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. UserName</b></p> <p>Name of the user.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv12UserName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.12.1</li></ul>
<p><b>4. SessionId</b></p> <p>Session ID of the user logging out.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv12SessionId</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.12.2</li></ul>

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rm\\_security\\_authlogout\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_security_authlogout_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. UserName</b></p> <p>Name of the user who logged on successfully.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv3UserName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.3.1</li></ul>
<p><b>4. Host</b></p> <p>The name of the host the user attempted to log in from.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv3Host</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.3.2</li></ul>
<p><b>5. SessionId</b></p> <p>The Session ID of the user who logged on.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv3SessionId</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.3.3</li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. UserName</b></p> <p>Name of the user whose role is granted.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv9UserName</li></ul>



- **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


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. GroupName</b></p> <p>Name of group newly created.</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv6GroupName</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.6.1</li> </ul>
<p><b>4. Id</b></p> <p>The ID of the group created newly.</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv6Id</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.6.2</li> </ul>

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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

<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. 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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rm\\_security\\_groupdeleted\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_security_groupdeleted_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. UserName</b></p> <p>Name of the user whose role is revoked.</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv8UserName</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.8.1</li> </ul>
<p><b>4. GroupName</b></p> <p>Group name revoked for the user.</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv8GroupName</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.8.2</li> </ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. UserName</b></p> <p>Name and Status of the user.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv11UserName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.11.1</li></ul>
<p><b>4. OldValue</b></p> <p>Old value of status.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv11OldValue</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.11.2</li></ul>
<p><b>5. NewValue</b></p> <p>New value of status</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv11NewValue</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.23.1.7.1.11.3</li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. UserName</b></p> <p>Name of the user whose status is changed.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-PLATFORM-MIB::ciC23sEv10UserName</li></ul>

- **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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rm\\_security\\_updateuser\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>rm_security_updateuser_message.html)

## 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


<h3>1. SerialNumber</h3> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. UserName</b></p> <p>Name of the user newly created.</p> <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>
<p><b>4. Id</b></p> <p>The ID of the user that was newly created.</p> <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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/platform/platfo  
rm\\_security\\_usercreated\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platfo<br/>
rm_security_usercreated_message.html)

## 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*



## Variables

---

The UserDeleted message contains the following variables:


Table 1. UserDeleted Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. UserName</b></p> <p>Name of the user deleted.</p> <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>

Parent topic: [Platform Security Notifications](#)

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### Feedback | Notices

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/platform/platform\\_security\\_userdeleted\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/platform/platform_security_userdeleted_message.html)

## SAP Module

---

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*

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
AddingServerInfo	Info	Orchestration	Adding server gateway.
BAPIActivationError	Severe	Orchestration	Error occurred while activating the BAPI activity.
BAPIParseError	Severe	Orchestration	Error occurred while parsing schema for the specified BAPI.
BAPIReturnError	Severe	Orchestration	Error returned by specified BAPI in the type field.
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.


Notification	Level	System	Description
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.
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.

Notification	Level	System	Description
<a href="#">TIDCommittingInfo</a>	Info	Orchestration	Committing TID to SAP.
<a href="#">TIDConfirmed</a>	Info	Orchestration	SAP TID has been confirmed and deleted from the TID manager.
<a href="#">TIDRollback</a>	Info	Orchestration	SAP TID has been rolled back.
<a href="#">TIDSentInfo</a>	Info	Orchestration	Sending the IDOC with specified TID to SAP.
<a href="#">TIDUnknown</a>	Severe	Orchestration	SAP has requested rollback for unknown TID.
<a href="#">TransactionalError</a>	Severe	Orchestration	Unable to find the BAPI transaction RFCs.
<a href="#">UnicodeGateway</a>	Info	Orchestration	The unicode instance property is set through JCONSOLE.
<a href="#">ValidationError</a>	Severe	Orchestration	Error occurred while validating the input data.
<a href="#">ValidationInfo</a>	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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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-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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <p>Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.</p>

- **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::ciC19cEv2ErrorGroup
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.1.1.2.1

### 6. ErrorKey

The key mentioned in the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19cEv2ErrorKey
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.1.1.2.2

### 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

### 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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. 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

Parent topic: [SAP Connection Notifications](#)

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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

### 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

Connection pool name which already exists.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19cEv3PoolName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.1.1.3.1

**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

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The RemoveInfo message contains the following variables:

Table 1. RemoveInfo Message Variables


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. PoolName</b></p> <p>Removing the connection pool .</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>

- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19cEv5PoolName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.1.1.5.1

Parent topic: [SAP Connection Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/sap/sap\\_connection\\_removeinfo\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/sap/sap_connection_removeinfo_message.html)

# 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.
- [SAPValidationError](#)  
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

### 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 added.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv30GatewayName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.30.1

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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

BAPI name for which parsing error occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv16BAPIName
- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. BAPIName</b></p> <p>The name of the BAPI for which the error occurred.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv18BAPIName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.18.1</li></ul>
<p><b>6. Type</b></p> <p>The type value returned.</p>

- **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

## Variables

---

The CompleteFunctionExec message contains the following variables:

Table 1. CompleteFunctionExec Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. FunctionName</b></p> <p>Name of the BAPI or RFC</p> <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>

Parent topic: [SAP Operation Notifications](#)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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

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

### 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. 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. FunctionName</b></p> <p>Name of the BAPI or RFC</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv46FunctionName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.46.1</li></ul>

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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. \nOriginal SAP error was \n {Message} \nIf 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*

SNMP Trap Number : *35*

## Variables

---

The GatewayCommWarning message contains the following variables:

Table 1. GatewayCommWarning Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <p>Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.</p>

- **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 warning occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv35HostName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.35.1

#### 6. ProgramID

The program ID for which warning occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv35ProgramID
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.35.2

#### 7. Service

The service name for which warning occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv35Service
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.35.3

#### 8. IntervalForRetries

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></ul>



- **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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></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 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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# IDOCTypeError

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::ciC19oIDOCTypeErrorEv40*

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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. RFCName</b></p> <p>RFC name which was not found.</p> <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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <p>Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.</p>



- **Type** : OID
- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

#### 5. InstanceNumber

The instance number which was started.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv34InstanceNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.34.1

#### 6. HostName

The host name for which instance was started.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv34HostName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.34.2

#### 7. ProgramID

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. HostName</b></p> <p>The host name for which listener started.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv37HostName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.37.1</li></ul>

## 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*

SNMP Trap Number : *39*

## Variables

The ListenerStopWarning message contains the following variables:

Table 1. ListenerStopWarning 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 error occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv39HostName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.39.1

## 6. ProgramID

The program ID for which error occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv39ProgramID
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.39.2

## 7. Service

The service name for which error occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv39Service
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.39.3

## 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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## 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 idoctype {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

### 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. 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*

## Variables

---

The NoSegmentWarning message contains the following variables:

Table 1. NoSegmentWarning Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. IDOCNumber</b></p> <p>The IDOC number.</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv22IDOCNumber</li> <li>• <b>SNMP OID</b> : 1.3.6.1.4.1.13336.2.2.3.19.1.2.1.22.1</li> </ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>



Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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

### 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. 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

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The ProcessDocError message contains the following variables:

Table 1. ProcessDocError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></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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# 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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. TIDNumber</b></p> <p>TID which was not found.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-SAP-MIB::ciC19oEv32TIDNumber</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.19.1.2.1.32.1</i></li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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

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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

### 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. 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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. RFCName

RFC name for which data was not valid.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv11RFCName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.11.1

#### 6. InvalidItems


The items which were not valid.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv11InvalidItems
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.11.2

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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*

The SapLibNotFound message contains the following variables:

Table 1. SapLibNotFound Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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/sap/sap\_operation\_saplibnotfound\_message.html

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <p>Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.</p>

- **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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## 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

### 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 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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. InvalidItems</b></p> <p>The invalid items in the input data.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-SAP-MIB::ciC19oEv20InvalidItems</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.19.1.2.1.20.1</i></li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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. 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** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 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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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. TID</b></p> <p>TID for which check is requested.</p>

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv4TID
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.4.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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 has been committed.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv9TID
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.9.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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## TIDCommittedInfo

---

Specified TID was committed to SAP.

Level : *Info*

Log Message : *TID {TID} committed succesfully.*

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


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. TID</b></p> <p>The TID which is committed.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li></ul>



- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv28TID
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.28.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. TID</b></p> <p>TID which was confirmed and deleted.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SAP-MIB::ciC19oEv6TID</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.6.1</li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></ul>

- **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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## 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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. TID</b></p> <p>TID which could not be rolled back.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-SAP-MIB::ciC19oEv8TID</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.19.1.2.1.8.1</i></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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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

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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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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](#)

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

### 5. ValidationStatus

The validation status either on or off.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv21ValidationStatus
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.19.1.2.1.21.1

### 6. Value


The value which is validated.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SAP-MIB::ciC19oEv21Value
- **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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/sap/sap\\_operation\\_validationinfo\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/sap/sap_operation_validationinfo_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <p>Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.</p>

- **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 intializing 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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:** [SAP Internal Notifications](#)

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

Parent topic: [SAP Internal Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/sap/sap\\_intern  
al\\_invalidtiderror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/sap/sap_intern<br/>al_invalidtiderror_message.html)

## SerializingError

---

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::ciC19iSerializingErrorEv3

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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

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
<a href="#">ActivationFailed</a>	Severe	Orchestration	Activation of Get SAML 2.0 token failed
<a href="#">AssertionEmpty</a>	Severe	Orchestration	Received empty response from Security Token Service. Cannot get the SAML Assertion.
<a href="#">InputBodyConsidered</a>	Info	Orchestration	RequestSecurityToken from Map Inputs is sent as request body because data sent in Map Inputs holds higher priority than in Configure Panel
<a href="#">RequestLocation</a>	Info	Orchestration	Location of request being sent to Security Token Service
<a href="#">UriDeprecated</a>	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

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

Parent topic: [STS Operation Notifications](#)

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 on\_assertionempty\_message.html

## 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-STIS-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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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: [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-STIS-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

### 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. Location

Request Location

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-STS-MIB::ciC27oEv5Location
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.27.1.2.1.5.1

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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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. Value</b></p> <p>The value which will be ignored due to deprecated input parameter.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-STS-MIB::ciC27oEv2Value</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.27.1.2.1.2.1</i></li></ul>

Parent topic: [STS Operation Notifications](#)

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## Salesforce.com Module

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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
<a href="#">ActivateError</a>	Severe	Orchestration	There was a problem in activating the activity.
<a href="#">ActivityOutput</a>	Info	Orchestration	The activity has completed its operation and outputted param objects in output parameter.
<a href="#">BatchPollStart</a>	Info	Orchestration	Starting a batch poll for index range specified.
<a href="#">ConnectFailed</a>	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.
<a href="#">ConnectionFailed</a>	Severe	Orchestration	The Salesforce.com operation failed because a connection to the server could not be established.
<a href="#">ConnectionRetry</a>	Warning	Orchestration	The Salesforce.com operation failed while trying to connect to the server. This will cause a retry.
<a href="#">ConnectionTryAgain</a>	Info	Orchestration	Not able to connect to Salesforce endpoint. Trying to establish a new session.
<a href="#">EndpointNull</a>	Severe	Orchestration	The endpoint object provided to Salesforce.com activity is null.
<a href="#">ExecuteError</a>	Severe	Orchestration	An error occurred while executing the activity.
<a href="#">ExecuteProblem</a>	Severe	Orchestration	An error occurred while executing the query.


<b>Notification</b>	<b>Level</b>	<b>System</b>	<b>Description</b>
<a href="#">InitializeProblem</a>	Warning	Orchestration	Error from Salesforce.com while initializing activity. Trying to ignore error and proceed.
<a href="#">InputParamMapped</a>	Info	Orchestration	The optional input parameter in the activity is mapped.
<a href="#">InputParamNotMapped</a>	Info	Orchestration	The optional input parameter in the activity is not mapped.
<a href="#">InvalidQuery</a>	Severe	Orchestration	The query provided to Salesforce.com was invalid.
<a href="#">InvalidSFDCField</a>	Severe	Orchestration	The field is invalid in Salesforce.com.
<a href="#">InvalidSFDCObject</a>	Severe	Orchestration	The object is invalid in Salesforce.com
<a href="#">LargeData</a>	Severe	Orchestration	The activity was not able to get data as id limit has exceeded.
<a href="#">LargeDataError</a>	Severe	Orchestration	An error occurred due to large data which activity cannot handle.
<a href="#">LoginFailure</a>	Severe	Orchestration	Failure while performing a login into Salesforce.com.
<a href="#">MarshalError</a>	Severe	Orchestration	An error occurred while writing output parameters in the activity.
<a href="#">MetadataError</a>	Severe	Orchestration	Unable to obtain meta data from Salesforce.com.
<a href="#">MetadataObjectError</a>	Severe	Orchestration	Unable to obtain meta data for the object from Salesforce.com.
<a href="#">NoDatafound</a>	Info	Orchestration	No data was found by the activity in the interval specified.
<a href="#">OptionalInputError</a>	Severe	Orchestration	Salesforce session timed out. The session was not created as optional connection input parameter was not mapped.
<a href="#">ParameterOutput</a>	Info	Orchestration	The activity has completed its operation and outputted objects in output parameter.
<a href="#">ParameterResults</a>	Info	Orchestration	The activity has completed its operation and outputted result objects in output parameter.
<a href="#">PollActivateError</a>	Severe	Orchestration	The poll activity failed to activate.
<a href="#">PollOutput</a>	Info	Orchestration	The number of objects outputted for a batch poll.
<a href="#">PollReturnedNothing</a>	Info	Orchestration	The poll activity did not return any ids for specified interval.
<a href="#">PollReturnedResults</a>	Info	Orchestration	Poll activity returned these number of ids for interval specified.
<a href="#">SessionInvalid</a>	Info	Orchestration	Salesforce session timed out and activity is establishing a new session.
<a href="#">SfdcErrorInternal</a>	Severe	Orchestration	An internal error occurred in Salesforce.com connector.

Notification	Level	System	Description
<a href="#">ShortPoll</a>	Info	Orchestration	The current time is less than 1 minute past last polling time, so activity is skipping the poll at this interval.
<a href="#">StillRun</a>	Info	Orchestration	There is a problem in connectivity and messages will be picked up from this time when connectivity is established.
<a href="#">TimeTooClose</a>	Info	Orchestration	The end time specified is less than 1 minute past start time. Setting the interval to 1 minute and getting the data.
<a href="#">UnexpectedSFDCFault</a>	Severe	Orchestration	Salesforce.com returned an unexpected fault that is not declared in the method signature.
<a href="#">UnmarshalError</a>	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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>

### 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

**Parent topic:** [Salesforce.com Connection Notifications](#)

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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

## 6. RetryAttemptNumber

The current number of retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3cEv3RetryAttemptNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.3.1.1.1.3.2

## 7. TotalRetryAttempts

The specified number of attempts to connect to the server before stopping.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3cEv3TotalRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.3.1.1.1.3.3


## 8. IntervalForRetries

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

**Parent topic:** [Salesforce.com Connection Notifications](#)

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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*

The ConnectionTryAgain message contains the following variables:

Table 1. ConnectionTryAgain Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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: [Salesforce.com Connection Notifications](#)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <p>Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.</p>

- **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

The SessionInvalid message contains the following variables:


Table 1. SessionInvalid Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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


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The StillRun message contains the following variables:

Table 1. StillRun Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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.

**Parent topic:** [Salesforce.com Module](#)

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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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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 : *.1.3.6.1.4.1.13336.2.2.3.1.2*

SNMP Trap Number : *23*

## Variables

---

The ActivityOutput message contains the following variables:


Table 1. ActivityOutput Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. NameOfOutputParam</b></p> <p>Name of the output parameter.</p>

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv23NameOfOutputParam
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.23.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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. BatchSize

The batch size for the poll.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv13BatchSize
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.3.1.2.1.13.1

#### 6. StartIndex

The start index specified.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv13StartIndex
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.3.1.2.1.13.2


#### 7. EndIndex

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p>


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** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

### 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*



The ExecuteProblem message contains the following variables:

Table 1. ExecuteProblem Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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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## 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

### 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 name of the mapped input parameter.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv19ParamName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.3.1.2.1.19.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ParamName</b></p> <p>The name of the input parameter not mapped.</p> <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.

- **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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## 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

### 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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# 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

## 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

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

## 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

### 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. NameOfObject

Name of the object.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv26NameOfObject
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.3.1.2.1.26.1

### 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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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. NumberOfObjects

Number of objects outputted by the activity.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv21NumberOfObjects
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.21.1

#### 6. NameOfOutputParam


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*


The ParameterResults message contains the following variables:

Table 1. ParameterResults Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. NumberOfResults</b></p> <p>Number of result objects outputted by the activity.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SFDC-MIB::ciC3oEv22NumberOfResults</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.22.1</li></ul>
<p><b>6. NameOfOutputParam</b></p> <p>Name of the output parameter.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SFDC-MIB::ciC3oEv22NameOfOutputParam</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.22.2</li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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

### 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. 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

## 5. PollStartTime

The start time for the poll.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv15PollStartTime
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.15.1


## 6. PollEndTime

The end time for the poll.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv15PollEndTime
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.15.2

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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

### 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. NumberOfIds

The number of ids returned by the poll.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SFDC-MIB::ciC3oEv12NumberOfIds
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.12.1

## 6. PollStartTime

The start time for the poll.

- **Type** : String
- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. EndTime</b></p> <p>The end time.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SFDC-MIB::ciC3oEv17EndTime</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.3.1.2.1.17.1</li></ul>
<p><b>6. StartTime</b></p> <p>The start time.</p>

- **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::ciC3oUnexpectedSFDCFaultEv1*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.3.1.2*

SNMP Trap Number : *1*

## Variables

The UnexpectedSFDCFault message contains the following variables:

Table 1. UnexpectedSFDCFault Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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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## 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

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The EndpointNull message contains the following variables:

Table 1. EndpointNull Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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

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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

### 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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## 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 : .1.3.6.1.4.1.13336.2.2.3.1.3

SNMP Trap Number : 1

## Variables

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The SfdcErrorInternal message contains the following variables:

Table 1. SfdcErrorInternal Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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: [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\_sfdcerrorinternal\_message.html

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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:** [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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/scheduler/about\\_the\\_scheduler\\_module.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/scheduler/about_the_scheduler_module.html)


## 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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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/scheduler/scheduler\\_operation\\_notifications\\_list.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/scheduler/scheduler_operation_notifications_list.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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::ciC5oSchedulerUnknownTypeEv2*

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3

Parent topic: [Scheduler Operation Notifications](#)

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# 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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

Description of error occurred.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SCHEDULER-MIB::ciC5oEv3Message
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.5.1.2.1.3.1

**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
<a href="#">ActivateError</a>	Severe	Orchestration	Error occurred while activating the specified activity.

Notification	Level	System	Description
<a href="#">ConfigURI</a>	Severe	Orchestration	Specified activity name is listening on the specified uri and port.
<a href="#">ConnectError</a>	Severe	Orchestration	The invoke operation failed because a connection to the server could not be established.
<a href="#">ConnectionPoolError</a>	Warning	Orchestration	Error occurred while setting up connection pool for specified activity.
<a href="#">ConnectionRetry</a>	Warning	Orchestration	The invoke operation failed while trying to connect to the server. This will cause a retry.
<a href="#">DataException</a>	Severe	Orchestration	Data error occurred while executing the activity.
<a href="#">GeneralError</a>	Severe	Orchestration	General error occurred while sending the response.
<a href="#">IOError</a>	Severe	Orchestration	IO error occurred while processing request.
<a href="#">InternalError</a>	Severe	Orchestration	Internal error occurred while processing request.
<a href="#">InvokeActivate</a>	Warning	Orchestration	Error in setup of repository/connection-pool in activate of specified activity. Setup will be done at activity execution time.
<a href="#">InvokeDeactivateError</a>	Warning	Orchestration	Error occurred while deactivating the specified activity.
<a href="#">InvokeException</a>	Severe	Orchestration	Error occurred while executing the activity.
<a href="#">InvokeSuccessful</a>	Info	Orchestration	Activity has successfully executed activity and outputted output parameter RESPONSE.
<a href="#">MissingLibraries</a>	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.
<a href="#">ReceiveDeactivateErr</a>	Severe	Orchestration	Error occurred while deactivating the specified activity.
<a href="#">ReceiveError</a>	Severe	Orchestration	Error occurred while receiving in the specified activity name.
<a href="#">ReceiveSuccessful</a>	Info	Orchestration	Receive activity successfully received request and outputted output parameter RESPONSE.
<a href="#">RepositoryError</a>	Warning	Orchestration	Error occurred while setting up repository for specified activity.
<a href="#">UnsupportedEncoding</a>	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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## 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

### 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. 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

Parent topic: [Siebel Connection Notifications](#)

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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

#### 6. RetryAttemptNumber

The current number of retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SIEBEL-MIB::ciC17cEv2RetryAttemptNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.17.1.1.1.2.2

#### 7. TotalRetryAttempts

The specified number of attempts to connect to the server before stopping.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SIEBEL-MIB::ciC17cEv2TotalRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.17.1.1.1.2.3


#### 8. IntervalForRetries

The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-SIEBEL-MIB::ciC17cEv2IntervalForRetries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.17.1.1.1.2.4

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/siebel/siebel\\_connection\\_connection\\_retry\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/siebel/siebel_connection_connection_retry_message.html)

# 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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></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. ActivityName

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*

## Variables

---

The ConfigURI message contains the following variables:

Table 1. ConfigURI Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ActivityName</b></p> <p>Activity name which is listening on the uri and port specified.</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SIEBEL-MIB::ciC17oEv13ActivityName</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.17.1.2.1.13.1</li> </ul>
<p><b>6. UriValue</b></p> <p>The URI the server is listening on.</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SIEBEL-MIB::ciC17oEv13UriValue</li> </ul>

- **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

### 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

Activity name which caused the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SIEBEL-MIB::ciC17oEv2ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.17.1.2.1.2.1


### 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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>

### 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

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. ActivityName</b></p> <p>Activity name which caused the error.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-SIEBEL-MIB::ciC17oEv4ActivityName</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.17.1.2.1.4.1</li></ul>


## 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

### 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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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*

SNMP Trap Number : *12*

## Variables

The ReceiveDeactivateErr message contains the following variables:

Table 1. ReceiveDeactivateErr Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

## 5. ActivityName

Activity name which caused the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SIEBEL-MIB::ciC17oEv12ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.17.1.2.1.12.1

## 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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# 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

### 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

Activity name which caused the error.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-SIEBEL-MIB::ciC17oEv9ActivityName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.17.1.2.1.9.1


## 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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## 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


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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::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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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# 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></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

**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

### 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: [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
<a href="#">AlreadyRegistered</a>	Severe	Orchestration	The URI/port is already registered by the Web Service activity.
<a href="#">CleanUpMessage</a>	Severe	Orchestration	Unable to process the request. Additional information about the error can be found on the Web Management Console.
<a href="#">ConnectFailed</a>	Severe	Orchestration	The webservice operation failed because a connection to the server could not be established.
<a href="#">ConnectRetry</a>	Warning	Orchestration	The webservice operation failed while trying to connect to the server. This will cause a retry.
<a href="#">DataMessageAccepted</a>	Info	Orchestration	SOAP message has been accepted by the Integration Appliance.
<a href="#">MissingProtocol</a>	Warning	Orchestration	Please put the protocol used in front of input parameter location.
<a href="#">NotRegistered</a>	Severe	Orchestration	The URI/port has not been registered by the Web Service activity.
<a href="#">OperationNameNull</a>	Severe	Orchestration	Operation name must not be null or empty.
<a href="#">TaskContextError</a>	Severe	Orchestration	Error occurred while processing Web Service activity due to lost task context.
<a href="#">TransportInfo</a>	Info	Orchestration	The provide activity is started on local transport for the URI.
<a href="#">UriDeprecated</a>	Warning	Orchestration	Web Service Module has deprecated the input parameter httpheaders/uri. The specified value will be ignored.
<a href="#">WSFaultString</a>	Severe	Orchestration	The fault string returned by the WebService activity.
<a href="#">WebServiceException</a>	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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p>

- **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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. LocationName</b></p> <p>The specified location which was not being able to connect.</p>

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18cEv1LocationName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.18.1.1.1.1.1

## 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

## 7. RetryAttemptNumber

The current number of retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18cEv1RetryAttemptNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.18.1.1.1.1.3

## 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** : .1.3.6.1.4.1.13336.2.2.3.18.1.1.1.1.4


## 9. IntervalForRetries

The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18cEv1IntervalForRetries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.18.1.1.1.1.5

Parent topic: [Web Service Connection Notifications](#)

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# Web Service Operation Notifications


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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Uri</b></p> <p>The URI which is already registered.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-WS-MIB::ciC18oEv7Uri</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.18.1.2.1.7.1</li></ul>
<p><b>6. Port</b></p> <p>The port which is already registered.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-WS-MIB::ciC18oEv7Port</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.18.1.2.1.7.2</li></ul>
<p><b>7. OperationName</b></p>

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

**Parent topic:** [Web Service Operation Notifications](#)

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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

Parent topic: [Web Service Operation Notifications](#)

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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*

## Variables

---

The DataMessageAccepted message contains the following variables:


Table 1. DataMessageAccepted Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

## 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

### 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. Uri

The URI which is not registered.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18oEv8Uri
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.18.1.2.1.8.1

## 6. Port

The port which is not registered.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WS-MIB::ciC18oEv8Port
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.18.1.2.1.8.2

## 7. OperationName

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

### 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. 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


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Value</b></p>

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

### 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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## 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*

The WebServiceException message contains the following variables:


Table 1. WebServiceException Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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>
<p><b>6. Cause</b></p> <p>The cause of the error message.</p> <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>

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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::ciC18iTaskContextErrorEv1*

SNMP Enterprise : *.1.3.6.1.4.1.13336.2.2.3.18.1.3*

SNMP Trap Number : *1*

## Variables

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The TaskContextError message contains the following variables:

Table 1. TaskContextError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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: [Web Service Internal Notifications](#)

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# WebSphere MQ Module

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
<a href="#">ConnectRetry</a>	Warning	Orchestration	The MQ operation failed while trying to connect to the server. This will cause a retry.
<a href="#">ConnectionError</a>	Severe	Orchestration	The MQ operation failed because a connection to the server could not be established.
<a href="#">DetailsOpen</a>	Info	Orchestration	Opening the queue with set all privileges as specified.
<a href="#">DuplicateFound</a>	Info	Orchestration	Discarding the duplicate message found in get activity.
<a href="#">FormatError</a>	Severe	Orchestration	The message format field specified is invalid. Supported formats are MQSTR, MQHRF2, and no format.
<a href="#">FormatWarning</a>	Warning	Orchestration	Activity expected string data (MQFMT_STRING), but the message is of another format.
<a href="#">GetFailure</a>	Severe	Orchestration	The get activity was not able to get messages from queue.
<a href="#">InputParamNull</a>	Severe	Orchestration	The input parameter specified is of zero length.
<a href="#">InternalFailure</a>	Severe	Orchestration	There was an internal error in MQ activity.
<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="#">MessageDelievered</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.

Notification	Level	System	Description
<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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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::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

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The ConnectionError message contains the following variables:

Table 1. ConnectionError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>

Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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::ciC13cEv3QueueManager
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.1.1.3.1

### 6. NumberOfRetryAttempts

The total number of attempted retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13cEv3NumberOfRetryAttempts
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.1.1.3.2

### 7. ErrorCode


The error code returned by the MQ server.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13cEv3ErrorCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.1.1.3.3

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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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. HostName</b></p> <p>The host name specified in the endpoint.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-MQ-MIB::ciC13cEv1HostName</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.13.1.1.1.1.1</i></li></ul>
<p><b>6. PortNumber</b></p>

The port number specified in the endpoint.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13cEv1PortNumber
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.1.1.1.2

## 7. UserName

The user name specified in the endpoint.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13cEv1UserName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.1.1.1.3

## 8. QueueManager

The queue manager specified in the endpoint.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13cEv1QueueManager
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.1.1.1.4

## 9. Channel


The channel specified in the endpoint.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13cEv1Channel
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.1.1.1.5

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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.
- [MessageDelievered](#)  
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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. Value</b></p> <p>Value of set all privileges set to true or false.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-MQ-MIB::ciC13oEv18Value</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.13.1.2.1.18.1</i></li></ul>

Parent topic: [WebSphere MQ Operation Notifications](#)



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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*

SNMP Trap Number : *14*

## 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></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

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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*

SNMP Trap Number : *8*

## Variables

The FormatError message contains the following variables:

Table 1. FormatError 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. Format


The invalid format specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv8Format
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.13.1.2.1.8.1

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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

<p><b>1. SerialNumber</b></p> <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> : <i>CASTIRON-IA-MIB::ciIaPlatSerialNumber</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.1.3.3</i></li></ul>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. Format</b></p> <p>The format specified.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-COMP-MQ-MIB::ciC13oEv9Format</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.3.13.1.2.1.9.1</i></li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>

- **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::ciC13oEv7QueueName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.2.1.7.1


#### 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*

## Variables


---

The MQMDFormatError message contains the following variables:

Table 1. MQMDFormatError Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Header</b></p> <p>The header specified.</p> <ul style="list-style-type: none"> <li>• <b>Type</b> : String</li> <li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MQ-MIB::ciC13oEv10Header</li> <li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.13.1.2.1.10.1</li> </ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p>



Reference to an entry in the Orchestration table containing information about the orchestration associated with this 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

## 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::ciC13oEv17Value
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.13.1.2.1.17.1

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. QueueManager</b></p> <p>The name of the queue manager.</p> <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>


## 6. ErrorCode

The error code returned by the MQ server.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv3ErrorCode
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.2.1.3.2

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## MQRFHHeaderError

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

### 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. Header

The header specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv11Header
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.13.1.2.1.11.1

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/mq/mq\\_operation\\_mqrfhheadererror\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/mq/mq_operation_mqrfhheadererror_message.html)

## 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 MessageDelievered message contains the following variables:

Table 1. MessageDelievered Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. QueueManager</b></p> <p>The name of the queue manager.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MQ-MIB::ciC13oEv4QueueManager</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.13.1.2.1.4.1</li></ul>

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 on\_messagedelievered\_message.html

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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. 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Queue</b></p> <p>The name of the queue.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-MQ-MIB::ciC13oEv5Queue</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.13.1.2.1.5.1</li></ul>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></ul>

- **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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on\\_nomessagefailure\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/mq/mq_operati<br/>on_nomessagefailure_message.html)

## 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

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. QueueManager

The name of the queue manager which activity was not able to connect.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv1QueueManager
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.13.1.2.1.1.1

## 6. RetryAttemptNumber

The current number of retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv1RetryAttemptNumber
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.13.1.2.1.1.2

## 7. TotalRetryAttempts

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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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## 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*

SNMP Trap Number : *13*

## Variables

The ReasonCode message contains the following variables:

Table 1. ReasonCode Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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** : Integer
- **SNMP Object Name** : CASTIRON-COMP-MQ-MIB::ciC13oEv13ReasonCode
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.13.1.2.1.13.1

**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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <p>Reference to an entry in the Orchestration table containing information about the orchestration associated with this event.</p>

- **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*

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
<a href="#">AlreadyRegistered</a>	Severe	Orchestration	The URI/port is already registered by the Workday activity.
<a href="#">CleanUpMessage</a>	Severe	Orchestration	Unable to process the request. Additional information about the error can be found on the Web Management Console.
<a href="#">ConnectFailed</a>	Severe	Orchestration	The workday operation failed because a connection to the server could not be established.
<a href="#">ConnectRetry</a>	Warning	Orchestration	The workday operation failed while trying to connect to the server. This will cause a retry.
<a href="#">DataMessageAccepted</a>	Info	Orchestration	SOAP message has been accepted by the Integration Appliance.
<a href="#">MissingProtocol</a>	Warning	Orchestration	Please put the protocol used in front of input parameter location.
<a href="#">NotRegistered</a>	Severe	Orchestration	The URI/port has not been registered by the Workday activity.
<a href="#">OperationNameNull</a>	Severe	Orchestration	Operation name must not be null or empty.
<a href="#">TaskContextError</a>	Severe	Orchestration	Error occurred while processing Workday activity due to lost task context.
<a href="#">TransportInfo</a>	Info	Orchestration	The provide activity is started on local transport for the URI.
<a href="#">UriDeprecated</a>	Warning	Orchestration	Workday Module has deprecated the input parameter httpheaders/uri. The specified value will be ignored.
<a href="#">WDFaultString</a>	Severe	Orchestration	The fault string returned by the Workday activity.
<a href="#">WorkdayException</a>	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.

- **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. LocationName

The specified location which was not being able to connect.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24cEv2LocationName
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.3.24.1.1.1.2.1

## 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: [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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>



## 5. LocationName

The specified location which was not being able to connect.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24cEv1LocationName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.24.1.1.1.1.1

## 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** : .1.3.6.1.4.1.13336.2.2.3.24.1.1.1.1.3

## 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** : .1.3.6.1.4.1.13336.2.2.3.24.1.1.1.1.4

## 9. IntervalForRetries


The specified time interval between retries.

- **Type** : Integer
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24cEv1IntervalForRetries
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.24.1.1.1.1.5

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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*

The AlreadyRegistered message contains the following variables:

Table 1. AlreadyRegistered Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Uri</b></p> <p>The URI which is already registered.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-WD-MIB::ciC24oEv7Uri</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.24.1.2.1.7.1</li></ul>
<p><b>6. Port</b></p> <p>The port which is already registered.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-WD-MIB::ciC24oEv7Port</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.24.1.2.1.7.2</li></ul>

## 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

### 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: [Workday Operation Notifications](#)

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[http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications\\_reference.doc/wd/wd\\_operation\\_cleanupmessage\\_message.html](http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.notifications_reference.doc/wd/wd_operation_cleanupmessage_message.html)

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>

## 5. Protocol

The protocol value that can be specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24oEv5Protocol
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.24.1.2.1.5.1


## 6. LocationName

The location name parameter before which protocol has to be specified.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24oEv5LocationName
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.24.1.2.1.5.2

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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

### 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. Uri

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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>

### 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** : 1.3.6.1.4.1.13336.2.2.2.1.1.3.3

## 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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Value</b></p>


The value which will be ignored due to deprecated input parameter.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-WD-MIB::ciC24oEv6Value
- **SNMP OID** : .1.3.6.1.4.1.13336.2.2.3.24.1.2.1.6.1

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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

### 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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## 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*

The WorkdayException message contains the following variables:

Table 1. WorkdayException Message Variables


<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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>
<p><b>6. Cause</b></p> <p>The cause of the error message.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : CASTIRON-COMP-WD-MIB::ciC24oEv4Cause</li><li>• <b>SNMP OID</b> : .1.3.6.1.4.1.13336.2.2.3.24.1.2.1.4.2</li></ul>



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## Workday Internal Notifications

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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 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

Notification	Level	System	Description
<a href="#">TransformError</a>	Severe	Orchestration	There was an error while transforming the XML.
<a href="#">ValidateInitialize</a>	Severe	Orchestration	There was an error while initializing the validate activity.
<a href="#">XMLParseError</a>	Severe	Orchestration	There was an error while parsing the XML.
<a href="#">XMLQueryError</a>	Severe	Orchestration	There was an error while querying the XML.
<a href="#">XMLSerializeError</a>	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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><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.

- **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](#)

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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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <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

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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>
<p><b>4. Orchestration</b></p> <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></ul>

- **SNMP Object Name** : CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration
- **SNMP OID** : 1.3.6.1.4.1.13336.2.2.1.2.3


## 5. ErrorMessage

The error message returned while parsing the XML.

- **Type** : String
- **SNMP Object Name** : CASTIRON-COMP-XML-MIB::ciC12oEv1ErrorMessage
- **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

### 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: [XML Operation Notifications](#)

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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

<p><b>1. SerialNumber</b></p> <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> : <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>
<p><b>2. Severity</b></p> <p>Severity of the Notification.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : Integer</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvSeverity</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.1</i></li></ul>
<p><b>3. JobID</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvJobID</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.4</i></li></ul>
<p><b>4. Orchestration</b></p> <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> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvOrchestration</i></li><li>• <b>SNMP OID</b> : <i>1.3.6.1.4.1.13336.2.2.1.2.3</i></li></ul>
<p><b>5. Message</b></p> <p>Textual description of the error.</p> <ul style="list-style-type: none"><li>• <b>Type</b> : String</li><li>• <b>SNMP Object Name</b> : <i>CASTIRON-REGISTRATIONS-MIB::ciEvMessage</i></li><li>• <b>SNMP OID</b> : <i>.1.3.6.1.4.1.13336.2.2.1.2.2</i></li></ul>

Parent topic: [XML Operation Notifications](#)

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## 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 : *.1.3.6.1.4.1.13336.2.2.2.1.1.10*

SNMP Trap Number : *1*

## Variables

The uncategorized message contains the following variables:

Table 1. Uncategorized Message Variables

<p><b>1. SerialNumber</b></p> <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>
<p><b>2. Severity</b></p> <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>
<p><b>3. JobID</b></p> <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. 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}	FanFailed
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}	FanRestored
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}	TemperatureOutOfRange
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}	TemperatureRestored
Warning	Orchestration	com.approuter.module.platform	Power has been interrupted. Machine ID: {1}	PowerInterrupted

Severity	System	LoggerName	Message	Replacement
Info	Orchestration	com.approuter.module.platform	Power has been restored. Machine ID: {1}	PowerRestored
Warning	Orchestration	com.approuter.module.platform	The Integration Appliance {0} has been opened. Machine ID: {1}	IntrusionInform
Severe	Orchestration	com.approuter.module.platform	RAID Array {0} is offline. Machine ID: {1}	RaidArrayOffline
Severe	Orchestration	com.approuter.module.platform	RAID Array {0} is degraded, probably because of a disk failure. Machine ID: {1}	RaidArrayDegraded
Info	Orchestration	com.approuter.module.platform	RAID Array {0} is optimal. Machine ID: {1}	RaidArrayOptimal
Severe	Orchestration	com.approuter.module.platform	RAID Disk {0} on array {1} has failed. Machine ID: {2}	RaidDiskFailed
Info	Orchestration	com.approuter.module.platform	RAID disk {0} on array {1} is rebuilding. Do not remove the disk until the rebuild is completed. Machine ID: {2}	RaidDiskRebuilding
Info	Orchestration	com.approuter.module.platform	RAID disk {0} on array {1} is online. Machine ID: {2}	RaidDiskOnline
Info	Orchestration	com.approuter.module.platform	High Availability System Failover successful.	HighAvailFailover
Info	Orchestration	com.approuter.module.platform	Network Interface Link Up. Network Interface {0} is now up Machine ID: {1}	NetworkLinkUp
Warning	Orchestration	com.approuter.module.platform	Network Interface Link Down. Network Interface {0} is now down Machine ID: {1}	NetworkLinkDown
Warning	Orchestration	com.approuter.module.platform	Automatically added hostname to /etc/hosts, see "net show etchost".	NetworkAutohost
Warning	Orchestration	com.approuter.module.platform	Could not add route to {0} on {1}	NetworkInvalidRoute
Info	Orchestration	com.approuter.module.platform	Swap space usage is now below the {0}% warning threshold - current usage is {1}.{2}%	SwapUsageWarnOk


Severity	System	LoggerName	Message	Replacement
Info	Orchestration	com.approuter.module.platform	Swap space usage is now below the {0}% critical threshold - current usage is {1}.{2}%	SwapUsageCriticalOk
Warning	Orchestration	com.approuter.module.platform	Swap space usage has exceeded the {0}% warning threshold - current usage is {1}.{2}%	SwapUsageWarning
Severe	Orchestration	com.approuter.module.platform	Swap space usage has exceeded the {0}% critical threshold - current usage is {1}.{2}%	SwapUsageCritical
Info	Orchestration	com.approuter.module.platform	{0} disk space usage is now below the {1}% warning threshold - current usage is {2}.{3}%	DiskUsageWarningOk
Info	Orchestration	com.approuter.module.platform	{0} disk space usage is now below the {1}% critical threshold - current usage is {2}.{3}%	DiskUsageCriticalOk
Warning	Orchestration	com.approuter.module.platform	{0} disk space usage has exceeded the {1}% warning threshold - current usage is {2}.{3}%	DiskUsageWarning
Severe	Orchestration	com.approuter.module.platform	{0} disk space usage has exceeded the {1}% critical threshold - current usage is {2}.{3}%	DiskUsageCritical
Info	Orchestration	com.approuter.module.platform	Job log purge triggered. Available disk space is {0}%. Specified trigger is {1}%.	OrcmonDiskTrigger
Info	Orchestration	com.approuter.module.platform	Job log purge triggered. Exceeded maximum duration since last purge.	OrcmonPurgeByTimeNP
Info	Orchestration	com.approuter.module.platform	Job log purge triggered. Time since last purge exceeded {0}.	OrcmonPurgeByTime
Info	Orchestration	com.approuter.module.platform	Job log purge triggered. There are {0} completed jobs. Completed jobs threshold is {1}.	OrcmonPurgeByCompl
Info	Orchestration	com.approuter.module.platform	Job log purge triggered. There are {0} errored jobs. Errored jobs threshold is {1}.	OrcmonPurgeByErrored
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

Severity	System	LoggerName	Message	Replacement
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

Severity	System	LoggerName	Message	Replacement
Info	Orchestration	com.approuter.module.platform	New Group {0} has been created with id {1}.	<a href="#">GroupCreated</a>
Info	Orchestration	com.approuter.module.platform	Group {0} has been deleted.	<a href="#">GroupDeleted</a>
Info	Orchestration	com.approuter.module.platform	User {0} has been revoked of the role {1}.	<a href="#">RevokeRole</a>
Info	Orchestration	com.approuter.module.platform	User {0} has been granted role of {1}.	<a href="#">GrantRole</a>
Info	Orchestration	com.approuter.module.platform	User {0} displayName has been changed from {1} to {2}.	<a href="#">UpdateUser</a>
Info	Orchestration	com.approuter.module.platform	User {0} status has been changed from {1} to {2}.	<a href="#">UpdateStatus</a>
Info	Orchestration	com.approuter.module.platform	User {0} with session id {1} logged out successfully.	<a href="#">AuthLogOut</a>

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 Last updated: Thursday, November 14, 2013  
file:///dcs/markdown/workspace/Transform/out.html

[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



Message	Module	Level	Notification
A connection error occurred while sending the receive activity response. Exception: {Message}	HTTP	Severe	<a href="#">ReceiveSendReplyError</a>
A connection error occurred while sending the response. Error is {Message}	HTTP	Severe	<a href="#">ReplyConnectionError</a>
A general error occurred while sending the response. Exception: {Message}	HTTP	Severe	<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	Severe	<a href="#">ActivationFailed</a>
Activity could not be converted into TwoPhase activity	Mastero	Severe	<a href="#">ErrorTwoPhase</a>

Message	Module	Level	Notification
Activity could not get activated. Error is: {Message}	Sal esf orc e.c om	S e v e r e	Activat eError
Activity expected string data (MQFMT_STRING), but the message is of format "{Format}".	We bS phe re MQ	W a r n i n g	Format Warnin g
Activity failed as data to get is larger than activity can handle. Error is: {Message}	Sal esf orc e.c om	S e v e r e	LargeD ataErr or
Activity {ActivityName} activated successfully	JD Ed war ds	I n f o	Activat eSucc essful
Activity {ActivityName} activated successfully	Peo ple Sof t	I n f o	Activat eSucc ess
Activity {ActivityName} activated successfully.	Do min o	I n f o	Activat eSucc ess
Activity {ActivityName} could not find any record	Peo ple Sof t	I n f o	GetNo Return
Activity {ActivityName} is stopped successfully.	Do min o	I n f o	StopSu ccess

Message	Module	Level	Notification
Activity {ActivityName} not started as {Name} is blank	PeopleSoft	Severe	<a href="#">ActivateFailureBlank</a>
ActivityFactory (name - {ActivityName}, version - {ActivityVersion}) not registered	Mastero	Severe	<a href="#">NoActivityFactory</a>
ActivityFactory (name - {ActivityName},version - {ActivityVersion}) has multiple registrations, not loading	Mastero	Severe	<a href="#">MultipleActFactory</a>
ActivityFactory (name - {ActivityName},version - {ActivityVersion}) returned wrong class {ActivityClass}	Mastero	Severe	<a href="#">WrongActFactory</a>
Adding Connection Pool with name {PoolName}	SAP	Info	<a href="#">PoolAddInfo</a>
Adding Server Gateway {GatewayName}.	SAP	Info	<a href="#">AddingServerInfo</a>
Additional property {PropertyName} set to {PropertyValue} so setup connection pool.	Email	Info	<a href="#">NewConnectEverytime</a>
An I/O error occurred while processing the request. Exception: {Message}	HTTP	Severe	<a href="#">ReceiveIOError</a>

Message	Module	Level	Notification
An error occurred handling a receive request. Exception: {Message}	HTTP	Severity	<a href="#">CommonHandlerError</a>
An error occurred while archiving job logs. The error message is: {Message}	Platform	Severity	<a href="#">OrcmonArchiveError</a>
An error occurred while closing the connection in the exception path. The exception is {Message}	Database	Warning	<a href="#">JDBCConnectionClose</a>
An error occurred while connecting to the database. The exception is {Message}	Database	Warning	<a href="#">ConnectionError</a>
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	<a href="#">ConnectionRetry</a>
An error occurred while executing a query on the job log database. The error message is: {Message}	Platform	Severity	<a href="#">OrcmonDatabaseError</a>

Message	Module	Level	Notification
An error occurred while processing the message for the parameterized query activity at row number {RowNumber}. The error is: {Message}	Database	Severe	<a href="#">Param Query Error</a>
An error occurred while processing the request. Exception: {Message}	HTTP	Severe	<a href="#">ReceiveInternalError</a>
An error occurred while reading headers. Exception: {Message}	HTTP	Severe	<a href="#">ReplyUnMarshalHeader</a>
An error occurred while setting the key store. Exception: {Message}	HTTP	Severe	<a href="#">RegisterKeyStore</a>
An error occurred while trying to execute activity {ActivityName}. Error is: {Message}	Domino	Severe	<a href="#">ActivityFailure</a>
An error occurred while trying to process an unsupported Accept-Charset encoding. Exception: {Message}	HTTP	Severe	<a href="#">ReceiveOperationError</a>
An exception occurred while activating the activity. The exception is :{Message}	HTTP	Severe	<a href="#">RequestActivate</a>

Message	Module	Level	Notification
An exception occurred while activating the parameterized query activity. The exception is: {Message}	Database	Severe	<a href="#">Param Query Activate</a>
An exception occurred while activating the stored procedure activity. The exception is: {Message}	Database	Severe	<a href="#">Stored Proc Activate</a>
An exception occurred while deleting the row from the control table. The exception is {Message}	Database	Severe	<a href="#">Error Delete Post</a>
An exception occurred while deleting the row from the control table. The exception is: {Message}	Database	Severe	<a href="#">Delete Rows Error</a>
An exception occurred while processing a SingleTableNotification job. Data error at row number {RowNumber} of table {TableName}. The Error is {Message}	Database	Severe	<a href="#">Error SingleTableJob</a>
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	<a href="#">Stored Proc Exception</a>
An exception occurred while processing the inbound job: {Message}	Database	Severe	<a href="#">InboundOperationError</a>

Message	Module	Level	Notification
An insert statement was issued to the control table. {TableName}	Database	Info	<a href="#">InsertTableStatement</a>
An internal error occurred: {Message}.	WebSphere MQ	Severe	<a href="#">InternalFailure</a>
An unexpected result returned from the buffer table. Expecting rows to be present in the result, instead the result is empty.	Database	Warning	<a href="#">UnexpectedEmptyRows</a>
An unknown exception occurred while sending the response to the client. Exception: {Message}	HTTP	Severe	<a href="#">ReplyUnknownError</a>
Append data to file "{FileName}" completed with return code {ResponseCode}.	FTP	Info	<a href="#">AppendAfter</a>
Appending data to file "{FileName}".	FTP	Info	<a href="#">AppendBefore</a>
Archiver created successfully, now performing archiving.	Archive	Info	<a href="#">ArchiverCreated</a>
Archiving done successfully.	Archive	Info	<a href="#">ArchiverDone</a>

Message	Module	Level	Notification
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
Automatically converting old style FTP filename pattern from "{OldStylePattern}" to "{NewStylePattern}". Please republish project from Studio version 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



Message	Module	Level	Notification
Boundary delimiters longer than 70 characters. Ignoring the specified boundary value. Using auto-generated boundary.	MI ME	Warning	BoundaryMoreThan70
Boundary is: \"{Boundary}\".	MI ME	Info	BoundaryInfo
Boundary specified in header but no boundary found in the body. Returning single body.	MI ME	Warning	NoBoundaryFound
Call context created but task never started; destroying task {TaskID}	Mastero	Info	CallContextDestroy
Call to function {FunctionName} is complete	SAP	Info	CompleteFunctionExec
Cancel of job {JobID} of Orchestration {OrchName} failed: {Message}.	Mastero	Severe	LoaderCancel
Cannot complete this job due to low memory, please try redeploying this orchestration	Mastero	Severe	LargeTotalVarSize
Cannot start an orchestration that is in transient state: {State}	Mastero	Severe	ProgramStart

Message	Module	Level	Notification
Caught exception while canceling job: {Message}	Mastero	Warning	<a href="#">TaskCancelled</a>
Changed directory to "{DirectoryName}" completed with return code {ResponseCode}.	FTP	Info	<a href="#">DirChangeAfter</a>
Changing to directory "{DirectoryName}".	FTP	Info	<a href="#">DirChangeBefore</a>
Committing TID {TID}.	SAP	Info	<a href="#">TIDCommittingInfo</a>
Completed activity and spewed out sessionInfo and {NameOfOutputParam} output parameter.	Salesforce.com	Info	<a href="#">ActivityOutput</a>
Completed activity and spewed out sessionInfo output parameter and {NumberOfObjects} objects in output parameter {NameOfOutputParam}.	Salesforce.com	Info	<a href="#">ParameterOutput</a>
Completed activity and spewed out sessionInfo output parameter and {NumberOfResults} result objects in output parameter {NameOfOutputParam}.	Salesforce.com	Info	<a href="#">ParameterResults</a>
Composite media type {MediaType} cannot have any other Content-Transfer-Encoding apart from 7bit, 8bit or binary.	MIME	Severe	<a href="#">TransferEncodingError</a>

Message	Module	Level	Notification
Config Parameters: From: \"{From}\", To: \"{To}\", CC: \"{CC}\", BCC: \"{BCC}\", Subject: \"{Subject}\".	Email	Info	<a href="#">SmtPConfigParams</a>
Config parameters: From Pattern: \"{FromPattern}\", Subject Pattern: \"{SubjectPattern}\".	Email	Info	<a href="#">Pop3COnfigParams</a>
Connected to the POP3 server.	Email	Info	<a href="#">Pop3COnnect</a>
Connected to the SMTP server.	Email	Info	<a href="#">SmtPCOnnect</a>
Connection Pool {PoolName} already exists, Using existing definition.	SAP	Info	<a href="#">PoolExistInfo</a>
Connection error while executing activity {ActivityName}. The error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s)	JDEwards	Warning	<a href="#">JDERetryError</a>
Connection error while executing activity {ActivityName}. The error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s)	PeopleSoft	Warning	<a href="#">ConnectionRetry</a>
Connection exception in the subscriber. The exception is {Message}. Going to restart the subscriber after the {IntervalForRestart} secs	JMS	Severe	<a href="#">SubscriberConnect</a>

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="#">SendConnectRerty</a>
Connection handler retrieved from the call context is Null!	HTTP	Severe	<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="#">TransferEncoding</a>

Message	Module	Level	Notification
Content-Transfer-Encoding value missing for attachment number {AttachmentNumber}. Guessing based on Content-Type and charset values.	MI ME	Warning	<a href="#">TransferEncodingMissing</a>
Content-type not found. Taking default Content-Type as text/plain.	MI ME	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	Master	Warning	<a href="#">DeleteObject</a>
Could not close output stream	Master	Warning	<a href="#">CloseOutputStream</a>
Could not close reader	Master	Warning	<a href="#">CloseInputStream</a>

Message	Module	Level	Notification
Could not close reader	Mastero	Warning	CloseReader
Could not close writer	Mastero	Warning	CloseWriter
Could not delete file "{FileName}" after processing. Error is {Message}	FTP	Warning	UnableToDelete
Could not execute query to preload lookup cache	DataQuality	Warning	BadPreloadQuery
Could not find an Archiver for supplied archive type: {FormatName}	Archive	Severe	InvalidArchiveFormat
Could not find an entry point for the activity: [{ActivityName}] in the compiled orchestration	Mastero	Severe	EntryPath

Message	Module	Level	Notification
Could not get data for date range, because id limit exceeded	Salesforce.com	Severe	<a href="#">LargeData</a>
Could not initialize FaultInfo	Mastero	Severe	<a href="#">FaultInfo</a>
Could not initialize JobInfo	Mastero	Severe	<a href="#">InitializeJobInfo</a>
Could not log monitor events	Mastero	Severe	<a href="#">MonitorEvents</a>
Could not log monitor variable "{VariableName}"	Mastero	Warning	<a href="#">MonitorVariable</a>
Could not log monitor variables	Mastero	Warning	<a href="#">MonitorVariables</a>

Message	Module	Level	Notification
Could not move file "{FileName}" after processing. Error is {Message}	FTP	Warning	UnableToMove
Could not perform input map expression: {ExpressionName}	Master	Severe	InputMapXP
Could not perform input map transform: {Message}	Master	Severe	InputMapXSLT
Could not perform output map expression: {Message}	Master	Severe	OutputMapXP
Could not perform output map transform: {Message}	Master	Severe	OutputMapXSLT
Could not perform output map: {Message}	Master	Severe	OutputMap
Could not query for monitor data	Master	Severe	MonitorQuery



Message	Module	Level	Notification
Could not read the module configuration: {Message}	Master	Severe	<a href="#">ModuleConfig</a>
Could not receive socket reply	Master	Warning	<a href="#">SocketNoReply</a>
Could not register {ObjectName} with mbean server	Master	Severe	<a href="#">MBeanRegister</a>
Could not suspend, orchestration not running: {OrchName}	Master	Severe	<a href="#">NotSuspend</a>
Could not undeploy, orchestration not stopped, state is {State}: {OrchName}	Master	Severe	<a href="#">NotStopped</a>
Could not unregister {ObjectName} with mbean server	Master	Severe	<a href="#">MBeanUnregister</a>
Created a new TID {TID} for starting a transaction in send IDOC activity.	SAP	Info	<a href="#">SendIDOCCreateInfo</a>

Message	Module	Level	Notification
Creating a new TID {TID} in the TID Manager.	SAP	Info	<a href="#">Create TID</a>
Current time {CurrentTime} is less than 1 minute past last polling time {LastPollingTime}. Skipping this polling interval.	Salesforce.com	Info	<a href="#">ShortPoll</a>
Data Error: {Message}.	Email	Severe	<a href="#">Pop3DataError</a>
Data Error: {Message}.	Email	Severe	<a href="#">SmtpDataError</a>
Data Quality Lookup activity with Fuzzy option is not supported in cloud	Data Quality	Severe	<a href="#">DQLookupFuzzyOnCloud</a>
Data being set for field named {FieldName} has length {DataLength}, where as field has length {FieldLength}. There may be loss of data.	PeopleSoft	Warning	<a href="#">DataLengthMore</a>
Data error while executing the activity. The error is: {Message}	Siebel	Severe	<a href="#">DataException</a>

Message	Module	Level	Notification
Debugger operation {Value} failed	Mastero	Severe	<a href="#">Debug Failed</a>
Decryption Done.	Crypto Service	Info	<a href="#">DecryptDone</a>
Decryption Started.	Crypto Service	Info	<a href="#">DecryptStarted</a>
Delete failed for item {ItemNumber}. Returning false	PeopleSoft	Warning	<a href="#">Delete Fail</a>
Delete file summary - Directory: {DirName}, Filename: {FileName}	FTP	Info	<a href="#">Delete InfoSummary</a>
Delete of Orchestration {OrchName} failed: {Message}.	Mastero	Severe	<a href="#">Loader Delete</a>
Deleted file "{FileName}" on server with return code {ResponseCode}.	FTP	Info	<a href="#">Delete After</a>
Deleting file "{FileName}" on server.	FTP	Info	<a href="#">Delete Before</a>

Message	Module	Level	Notification
Deploy of Orchestration {OrchName} failed: {Message}.	Maestro	Severe	<a href="#">Loader Deploy</a>
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="#">DiskUsageCriticalOk</a>
Disk space usage on {Disk} is now below the {Threshold}% warning threshold - current usage is {Usage}%	Platform	Info	<a href="#">DiskUsageWarningOk</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>

Message	Module	Level	Notification
Duplicate message found, discarding.	WebSphere MQ	Info	DuplicateFound
Email id is invalid: {EmailID}.	Email	Warning	InvalidEmailID
Email sent to server.	Email	Info	EmailSent
Emitted {NumberOfEntries} entries to "{Target}"	Data Quality	Info	OutputEntryCount
Empty input parameter 'mimeheader'. Cannot parse data.	MIME	Severe	HeaderAbsent
Empty input parameter 'parts'. No data to serialize.	MIME	Severe	EmptyParts
Encoding parameter not set and no value specified in configuration	Data	Severe	MissingEncParse

Message	Module	Level	Notification
Encoding parameter not set and no value specified in configuration	Data	Severe	<a href="#">MissingEncSerialize</a>
Encoding parameter not supported: {Encoding}	Data	Severe	<a href="#">BadEncoding</a>
Encountered fault of type {FaultType}, please see rest of the log for more information	Mastero	Severe	<a href="#">ActivityFailedError</a>
Encryption Done	CryptoService	Info	<a href="#">EncryptDone</a>
Encryption Started.	CryptoService	Info	<a href="#">EncryptStarted</a>
End time {StartTime} is less than 1 minute past start time {EndTime}. Setting interval to 1 minute and getting data.	SalEsforce.com	Info	<a href="#">TimeTooClose</a>
Ended job for orchestration "{OrchName}"	Mastero	Info	<a href="#">TaskEnded</a>
Endpoint Parameters: Host: \"{HostName}\", Port: {Port}, User: \"{Username}\".	Email	Info	<a href="#">EndpointData</a>

Message	Module	Level	Notification
Endpoint Parameters: Host: \"{HostName}\", Port: {Port}, User: \"{Username}\".	Email	Info	<a href="#">SmtPEndpointData</a>
Endpoint object is null.	Salesforce.com	Severe	<a href="#">EndpointNull</a>
Entities of type {MainType}/{SubType} cannot have any other Content-Transfer-Encoding apart from 7bit.	MI ME	Severe	<a href="#">TransferEncLimit</a>
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	<a href="#">ActivateUnsuccessful</a>
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	<a href="#">ActivateUnsuccessful</a>
Error encountered unmarshaling the MQRFH2 header: {Message}.	WebSphereMQ	Severe	<a href="#">RFHFormatException</a>
Error from Salesforce.com while initializing activity. Trying to ignore error and proceed. Error is: {Message}.	Salesforce.com	Warning	<a href="#">InitializeProblem</a>
Error identifying archive. Message is: {Message}	Archive	Severe	<a href="#">ErrorIdentifyArchive</a>

Message	Module	Level	Notification
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="#">GatewayCommunicationWarning</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>



Message	Module	Level	Notification
Error sending SOAP request to location: {LocationName}. Error is: {Message}	Workday	Severe	ConnectFailed
Error sending SOAP request to location: {LocationName}. Error is: {Message}	Web Service	Severe	ConnectFailed
Error while activating PeopleSoft Receive. The error is: {Message}	PeopleSoft	Severe	ReceiveActivate
Error while activating the activity. Exception: {Message}	HTTP	Severe	ReceiveActivate
Error while activating the {ActivityName} activity. The error is: {Message}	Siebel	Severe	ActivateError
Error while closing the connection pool. The error is: {Message}	Email	Warning	ConnPoolReleaseError
Error while closing the connection pool. The error is: {Message}	JDEwards	Warning	ConnPoolRelease

Message	Module	Level	Notification
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}	JDEwards	Warning	<a href="#">ConnectException</a>
Error while creating the connection to destination. The error is: {Message}	Email	Warning	<a href="#">MakeConnectionError</a>
Error while creating the connection to destination. The error is: {Message}	JDEwards	Warning	<a href="#">MakeConnectionError</a>
Error while creating the connection to destination. The error is: {Message}	PeopleSoft	Warning	<a href="#">MakeConnectionError</a>
Error while deactivating PeopleSoft Receive. Discarding error: {Message}	PeopleSoft	Severe	<a href="#">ReceiveDeactivate</a>

Message	Module	Level	Notification
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}	JDEwards	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}.	MI ME	Severe	<a href="#">ParseException</a>
Error while parsing datetime from archive entries. Message is: {Message}	Archive	Warning	<a href="#">InvalidDateTime</a>

Message	Module	Level	Notification
Error while processing request in PeopleSoft Receive. The error is: {Message}	PeopleSoft	Severe	<a href="#">ReceiveProcess</a>
Error while processing request. Exception : {Message}	JDEwards	Severe	<a href="#">JDEInternalError</a>
Error while processing request. The error is: {Message}	Siebel	Severe	<a href="#">InternalError</a>
Error while processing the connection parameters sent as part of the request. Error is: {Message}	Domino	Severe	<a href="#">ConnectError</a>
Error while processing unsupported encoding. Exception : {Message}	JDEwards	Severe	<a href="#">UnsupportedEncoding</a>
Error while processing unsupported encoding. The error is: {Message}	Siebel	Severe	<a href="#">UnsupportedEncoding</a>
Error while reading archive entry. Message is: {Message}	Archive	Severe	<a href="#">InvalidArchiveEntry</a>

Message	Module	Level	Notification
Error while reading archive. Message is: {Message}	Archive	Severe	InvalidUnarchiveInput
Error while receiving in PeopleSoft Receive. The error is: {Message}	PeopleSoft	Severe	ReceiveError
Error while receiving in {ActivityName} activity. The error is: {Message}	Siebel	Severe	ReceiveError
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
Error while sending the response from PeopleSoft Receive. The error is: {Message}	PeopleSoft	Severe	ReceiveGeneralError
Error while serializing data. Error is: {Message}.	MI ME	Severe	SerializeException

Message	Module	Level	Notification
Error while setting up connection pool for {ActivityName} activity. The error is: {Message}	Siebel	Warning	<a href="#">ConnectionPoolError</a>
Error while setting up repository for {ActivityName} activity. The error is: {Message}	Siebel	Warning	<a href="#">RepositoryError</a>
Error while stopping the receive activity. Exception: {Message}	HTTP	Severe	<a href="#">ReceiveDeactivate</a>
Error while trying to activate activity. Error is: {Message}	Salesforce.com	Severe	<a href="#">PollActivateError</a>
Error while trying to disconnect from server. Discarding error: {Message}.	Email	Warning	<a href="#">DisconnectException</a>
Error while trying to disconnect from server. Discarding error: {Message}.	Email	Warning	<a href="#">SmtplibDisconnectError</a>

Message	Module	Level	Notification
Error while trying to execute activity {ActivityName}. Error is: {Message}	JD Edwards	Severe	<a href="#">ActivityError</a>
Error while trying to execute activity {ActivityName}. Error is: {Message}	PeopleSoft	Severe	<a href="#">ActivityFailure</a>
Error while trying to execute activity. Error is: {Message}	Salesforce.com	Severe	<a href="#">ExecuteError</a>
Error while trying to execute query. Error is: {Message}	Salesforce.com	Severe	<a href="#">ExecuteProblem</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>

Message	Module	Level	Notification
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="#">MarshalError</a>
Error: {Message}.	Email	Severe	<a href="#">Pop3InternalError</a>
Error: {Message}.	Email	Severe	<a href="#">SmtInternalError</a>
Error: {Message}.	Scheduler	Severe	<a href="#">ActivityException</a>
Errors/Warning messages while executing activity: {Message}	Domino	Warning	<a href="#">RunningInfo</a>



Message	Module	Level	Notification
Errors/Warning messages while executing activity: {Message}	PeopleSoft	Warning	<a href="#">RunningInfo</a>
Exceeded maximum number of activity events for a job; logging disabled	Mastero	Warning	<a href="#">MaxSeqNum</a>
Exception : {Message}	HTTP	Severe	<a href="#">UnsupportedEncoding</a>
Exception detected in module, throwing exception {Message}	Mastero	Severe	<a href="#">InvokeError</a>
Exception in foreach activity: {Message}	Mastero	Severe	<a href="#">ForEach</a>
Exception in map activity: {Message}	Mastero	Severe	<a href="#">ErrorMap</a>
Exception in split activity: {Message}	Mastero	Severe	<a href="#">SplitError</a>

Message	Module	Level	Notification
Exception in subscribing the message. The Exception is: {Message} for message id: {MessageID}, This message should be re-delivered manually from the Provider.	JMS	Severe	<a href="#">SubscriberError</a>
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	<a href="#">PooledConnException</a>
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>

Message	Module	Level	Notification
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}	JDEwards	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}	JDEwards	Severe	<a href="#">ResourceCleanError</a>
Exception while configuring the subscriber activity. The exception is: {Message}	JMS	Severe	<a href="#">SubscriberConfigError</a>
Exception while creating IDOC form input parameter. The Exception is {Message}	SAP	Severe	<a href="#">SerializingError</a>

Message	Module	Level	Notification
Exception while creating a schema for the business function name {FunctionName}, function code {FunctionCode}, module code {ModuleCode}. The exception is {Message}	JDEwards	Severe	<a href="#">DataStructureError</a>
Exception while creating connection to JDE. The Exception is {Message}	JDEwards	Severe	<a href="#">GetConnectionError</a>
Exception while creating request schema for the business function {FunctionName}, function code {FunctionCode} , module code {ModuleCode}. The exception is {Message}	JDEwards	Severe	<a href="#">CreateSchemaError</a>
Exception while creating request schema for the business function {FunctionName}, function code {FunctionCode} , module code {ModuleCode}. The exception is {Message}	JDEwards	Severe	<a href="#">ResponseSchemaError</a>
Exception while creating soap message. The exception is: {Message}	NetSuite	Severe	<a href="#">SoapError</a>
Exception while creating the connection to destination. The Exception is {Message}	JMS	Severe	<a href="#">MakeConnectError</a>
Exception while getting custom fields for the recordType. The soap fault code is {SoapFaultCode} and fault message is {SoapFaultMessage}	NetSuite	Severe	<a href="#">CustomFieldError</a>

Message	Module	Level	Notification
Exception while getting message from the provider. The error code is {ErrorCode} and message is {ErrorMessage}	JMS	Severe	JMSError
Exception while getting the message from the queue. The Exception is: {Message}	JMS	Severe	PollMessageError
Exception while initializing Lotus Domino connector.	Domino	Severe	Initialization Error
Exception while intializing the send IDOC activity. The error message is {Message}	SAP	Severe	Initialization Error
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

Message	Module	Level	Notification
Exception while parsing schema for the BAPI {BAPIName}. The Exception is {Message}	SAP	Severe	<a href="#">BAPIParseError</a>
Exception while parsing schema for the RFC {RFCName}. The Exception is {Message}	SAP	Severe	<a href="#">ParseError</a>
Exception while processing SAP activity. Error Group: {ErrorGroup}, Error Key: {ErrorKey}, Error Message: {Message}.	SAP	Severe	<a href="#">SAPActivityError</a>
Exception while processing Web Service activity. Error message: {Message}. Caused by: {Cause}	Web Service	Severe	<a href="#">WebServiceException</a>
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	<a href="#">TaskContextError</a>
Exception while processing Workday activity. Error message: {Message}. Caused by: {Cause}	Workday	Severe	<a href="#">WorkdayException</a>
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	<a href="#">TaskContextError</a>

Message	Module	Level	Notification
Exception while processing a message for NetSuite. Exception is {Message}.	NetSuite	Severe	<a href="#">TransformationError</a>
Exception while processing the IDOC. The exception is {Message}	SAP	Severe	<a href="#">ProcessDocError</a>
Exception while returning connection to pool. The Exception is {Message}	JMS	Warning	<a href="#">ConnectionPoolError</a>
Exception while returning connection to pool. Swallowing the exception. The Exception is {Message}	NetSuite	Warning	<a href="#">ConnectionPoolError</a>
Exception while rolling back the transaction.	SAP	Warning	<a href="#">RollbackWarning</a>
Exception while sending message. The error code is {ErrorCode} and message is {ErrorMessage}	JMS	Severe	<a href="#">SendMessageError</a>

Message	Module	Level	Notification
Exception while setting the log directory for SAP trace files.	SAP	Warning	<a href="#">CreateTrcDirFailed</a>
Exception while starting the server. Exception is {Message}	SAP	Info	<a href="#">StartWarning</a>
Exception while stopping the listener for host {HostName}, ProgramId {ProgramID} and Service {Service}.The Exception is {Message}	SAP	Warning	<a href="#">ListenerStopWarning</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="#">ValidationError</a>
Exporting archive file to FTP server {Host};{Port}. Placing file "{Filename}" in directory "{Directory}".	Platform	Info	<a href="#">OrcmonExportFTP</a>



Message	Module	Level	Notification
Exporting job log data to local archive file "{Filename}".	Platform	Info	<a href="#">OrcmonExportLocal</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}	Mastero	Warning	<a href="#">CleanupFailed</a>
Failed to deactivate activity {ActivityName}	Mastero	Severe	<a href="#">DeactivateFailed</a>
Failed to destroy activity {ActivityName}	Mastero	Severe	<a href="#">DestroyFailed</a>
Failed to filter data, error was: {Message}	Data Quality	Severe	<a href="#">FilterError</a>
Failed to initialize the Xml Validate Activity: {Message}	XML	Severe	<a href="#">ValidateInitialize</a>

Message	Module	Level	Notification
Failed to log message, error was {ErrorMsg}.	Log	Severe	<a href="#">FailLogMessage</a>
Failed to merge data, error was: {Message}	Data Quality	Severe	<a href="#">MergeError</a>
Failed to parse JSON, error was: {ErrorMessage}	JSON	Severe	<a href="#">JSONParseError</a>
Failed to parse XML, error was: {ErrorMessage}	XML	Severe	<a href="#">XMLParseError</a>
Failed to perform lookup for data, database assets may not have been created	Data Quality	Severe	<a href="#">NoAssetsError</a>
Failed to perform lookup for data, error was: {Message}	Data Quality	Severe	<a href="#">LookupError</a>
Failed to purge any job logs to recover disk space. Available disk space is {DiskAvailPct}%.	Platform	Severe	<a href="#">OrcmonDiskFullNoPurge</a>

Message	Module	Level	Notification
Failed to query XML, error was: {Message}	XML	Severe	<a href="#">XMLQueryError</a>
Failed to serialize JSON, error was: {Message}	JSON	Severe	<a href="#">JSONSerializeError</a>
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>

Message	Module	Level	Notification
Failure uploading archive file to FTP server: Could not cd to directory "{Directory}".	Platform	Severe	<a href="#">OrcmonExportCdError</a>
Failure uploading archive file to FTP server: Could not store file.	Platform	Severe	<a href="#">OrcmonExportStoreErr</a>
Failure uploading archive file to FTP server: {Message}	Platform	Severe	<a href="#">OrcmonExportError</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>
File named "{FileName}" has already been processed previously. The previous timestamp was {Timestamp}.	FTP	Info	<a href="#">DuplicateFile</a>

Message	Module	Level	Notification
Filename is empty. Please specify valid filename.	FTP	Severe	PutEmptyFileName
Filtered {NumberOfEntries} entries	CryptoService	Info	InputEntryCount
Filtered {NumberOfEntries} entries	DataQuality	Info	InputEntryCount
Finger print for host: {HostName} is {FingerprintInfo}	FTP	Info	SshFingerprintInfo
Found boundary parameter: \"{Boundary}\".	MI ME	Info	FoundBoundary
From pattern \"{FromPattern}\" incorrect. Error is: {Message}.	Email	Severe	PatternIncorrect
General FTP module exception. Error is: {Message}	FTP	Severe	InternalException
General error while sending the response. The error is: {Message}	Sibel	Severe	GeneralError

Message	Module	Level	Notification
Get file summary - Directory: {DirName}, Filename: {FileName}, IsBinary? {BinaryOption}	FTP	Info	<a href="#">GetInfoSummary</a>
Getting a listing for pattern "{Pattern}" for current directory.	FTP	Info	<a href="#">ListBefore</a>
Getting a name listing for pattern "{Pattern}" for current directory.	FTP	Info	<a href="#">NListBefore</a>
Got Content-Transfer-Encoding: {ContentTransfer}.	MI ME	Info	<a href="#">TransferEncodingValue</a>
Got boundary: \"{Boundary}\".	MI ME	Info	<a href="#">BoundarySpecified</a>
Got document from {From} with Message Name: {MessageName}, Message Version: {MessageVersion}, Message Type: {MessageType} and Originating Time Stamp: {TimeStamp}	People Soft	Info	<a href="#">ReceiveInfo</a>
Got exception in "Schedule Job" activity: {Message}. Continuing to schedule jobs.	Scheduler	Warning	<a href="#">SchedulerWarning</a>
Got main-type: {MainType}.	MI ME	Info	<a href="#">MainType</a>
Group {UserName} has been deleted.	Platform	Info	<a href="#">GroupDeleted</a>

Message	Module	Level	Notification
HA peers are running different versions of CIOS!	Platform	Severity	HighAvailabilityVersionError
IO Error while processing request in PeopleSoft Receive. The error is: {Message}	PeopleSoft	Severity	ReceiveIOError
IO Error while processing request. The error is: {Message}	Siebel	Severity	IOError
IO Exception.	CryptoService	Severity	InvalidFormat
ITEM_NO is empty. Returning false	PeopleSoft	Warning	ItemNumberBlank
Idoc contains more than one type of IDOC extension type	SAP	Severity	IDOCExtensionError
Idoc with the TID {TID} is sent successfully to sap.	SAP	Info	IDOCSENTInfo

Message	Module	Level	Notification
Information about this run of the Socket Janitor.	HT TP	I n f o	<a href="#">SockC ollecto rRunIn fo</a>
Initializing the values in the MBean: {LoopBackString}	HT TP	I n f o	<a href="#">LoopB ackInit ialize</a>
Input data was not valid for IDOC. The following item(s) were invalid: {InvalidItems}	SA P	S e v e r e	<a href="#">SendI DOCVa lidatio n</a>
Input data was not valid for RFC {RFCName}. The following item(s) were invalid: {InvalidItems}	SA P	S e v e r e	<a href="#">SAPVal idation Error</a>
Input entries do not conform to the schema. Error Message is: {Message}	Arc hiv e	S e v e r e	<a href="#">Validat ionErr or</a>
Input entries successfully validated against schema.	Arc hiv e	I n f o	<a href="#">Validat ionFin e</a>
Input entry has no content or it's a blank entry.	Arc hiv e	S e v e r e	<a href="#">Archiv eEntry Blank</a>
Input parameter "{ParamName}" is over {Length} and is too large to log	Ma est ro	W a r n i n g	<a href="#">LargeI nputPa ram</a>



Message	Module	Level	Notification
Input parameter 'body' from container is NULL.	Email	Severe	BodyNull
Input parameter 'body' from container is NULL.	MI ME	Severe	InputBodyNull
InputOutput Exception. {0}	Crypto Service	Severe	IOException
Integrity check failed.	Crypto Service	Info	IntegrityCheckFailed
Integrity check passed.	Crypto Service	Info	IntegrityCheckPassed
Internal error in Salesforce.com connector. Error is: {Message}	Salesforce.com	Severe	SfdcErrorInternal
Internal error: {Message}	Mastero	Severe	UnCaughtError

Message	Module	Level	Notification
Internal error: {Message}	Mastero	Severe	UnexpectedError
Internal error: {Message}	Mastero	Warning	IOError
Invalid Content	CryptoService	Severe	InvalidContent
Invalid Date Format	CryptoService	Severe	InvalidDateFormat
Invalid Key Handle or Password . {KeyHandleName}	CryptoService	Severe	InvalidKeyOrPwd
Invalid Key Store.	CryptoService	Severe	InvalidAlgorithm
Invalid Key Store. {KeyHandleName}	CryptoService	Severe	InvalidKeyStore

Message	Module	Level	Notification
Invalid Keyhandle. {KeyHandleName}	Crypto Service	Severe	<a href="#">Invalid Keyhandle</a>
Invalid OSGI query syntax: {Message}	Mastero	Severe	<a href="#">OSGISyntaxError</a>
Invalid Password.	Crypto Service	Severe	<a href="#">Invalid Password</a>
Invalid Salesforce.com field. Error is: {Message}	Salesforce.com	Severe	<a href="#">Invalid SFDCF field</a>
Invalid Salesforce.com object. Error is: {Message}	Salesforce.com	Severe	<a href="#">Invalid SFDCObject</a>
Invalid numeric value found in archive entries. Message is: {Message}	Archive	Warning	<a href="#">Invalid NumIn ArchEntry</a>
Invalid or unsupported archive format.	Archive	Severe	<a href="#">Invalid UnArchFormat</a>

Message	Module	Level	Notification
Invalid port number : {PortNumber}	JD Edwards	Warning	NumberFormatError
Invalid task state transition, marked job faulted	Mastero	Severe	TaskStateTransition
Job log purge triggered. Available disk space is {DiskAvailPct}%. Specified trigger is {DiskAvailTrigger}%.	Platform	Info	OrcmonDiskTrigger
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	OrcmonDiskFull
Job log purge triggered. Exceeded maximum duration since last purge.	Platform	Info	OrcmonPurgeByTimeNP
Job log purge triggered. There are {NumCompleted} completed jobs. Completed jobs threshold is {Threshold}.	Platform	Info	OrcmonPurgeByComplete
Job log purge triggered. There are {NumErrored} errored jobs. Errored jobs threshold is {Threshold}.	Platform	Info	OrcmonPurgeByErrored
Job log purge triggered. Time since last purge exceeded {PurgeTime}.	Platform	Info	OrcmonPurgeByTime

Message	Module	Level	Notification
Job log purge/archive failed: {Message}.	Platform	Severe	<a href="#">OrcmonPurgeFailed</a>
Job log purged {NumExported} jobs.	Platform	Info	<a href="#">OrcmonExportedJobs</a>
Job status changed to {Status}	Master	Info	<a href="#">TaskStatusChanged</a>
List directory summary - Directory: {DirName}, Pattern: {Pattern}, NLIST? {ListOption}	FTP	Info	<a href="#">ListFileSummary</a>
Listing completed with a return code {ResponseCode}.	FTP	Info	<a href="#">ListAfter</a>
Logged key with name "{KeyName}" and value "{KeyValue}"	Master	Info	<a href="#">KeyLog</a>
Looked up {NumberOfEntries} entries	Data Quality	Info	<a href="#">LookupEntryCount</a>
Looking up function {FunctionName} from SAP Repository	SAP	Info	<a href="#">FunctionLookup</a>
Looking up function {FunctionName} from SAP Repository (complete)	SAP	Info	<a href="#">FunctionLookupComp</a>

Message	Module	Level	Notification
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
MQ Exception caught, reason code is {ReasonCode}	WebSphere MQ	Info	ReasonCode
MQMD header input parameter format is incorrect; {Header}	WebSphere MQ	Severe	MQMDFormatError

Message	Module	Level	Notification
MQRFH2 header input parameter format is incorrect.	WebSphere MQ	Severe	<a href="#">MQRFHHeaderError</a>
Mails processed in this poll deleted from server.	Email	Info	<a href="#">MailsDeleted</a>
Matched email with From: \"{FromPattern}\" and Subject: \"{SubjectPattern}\".	Email	Info	<a href="#">EmailMatched</a>
Merged {NumberOfEntries} left entries	Data Quality	Info	<a href="#">LeftMergeInputEntry</a>
Merged {NumberOfEntries} right entries	Data Quality	Info	<a href="#">RightMergeInputEntry</a>
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	<a href="#">MessageNameVersion</a>
Message of {QueueName} bytes retrieved from queue \"{NumberOfBytes}\".	WebSphere MQ	Info	<a href="#">MessageRetrieved</a>
Message successfully delivered to queue {QueueManager}.	WebSphere MQ	Info	<a href="#">MessageDelivered</a>

Message	Module	Level	Notification
Mime-header type: {MainType}; sub-type: {SubType}.	MIME	Severe	<a href="#">MainAndSubType</a>
Missing classes when trying to start activity {ActivitName}. PeopleSoft library may need to be installed on the appliance. Error is: {Message}	PeopleSoft	Severe	<a href="#">MissingLibraries</a>
Missing classes when trying to start activity {ActivityName}. JDE library may need to be installed on the appliance. Error is: {Message}	JDEwards	Severe	<a href="#">ClassesMissing</a>
More than one entries found for BZIP2 operation.	Archive	Severe	<a href="#">InvalidBzipEntry</a>
More than one entries found for GZIP operation.	Archive	Severe	<a href="#">InvalidGzipEntry</a>
Name listing completed with a return code {ResponseCode}.	FTP	Info	<a href="#">NListAfter</a>
Naming exception while configuring the subscriber activity. The exception is {Message}	JMS	Severe	<a href="#">SubscriberNameError</a>



Message	Module	Level	Notification
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.	MI ME	Severe	NoAttachments

Message	Module	Level	Notification
No boundary value specified for multiple parts attachment. Using auto-generated boundary: {Boundary}.	MIME	Info	<a href="#">AutoGeneratedBody</a>
No data found in the interval.	Salesforce.com	Info	<a href="#">NoDataFound</a>
No emails matched on the server.	Email	Info	<a href="#">NoEmailMatched</a>
No input map for required parameter: {ParamName}	Mastro	Severe	<a href="#">InputMap</a>
No mail found on the server.	Email	Info	<a href="#">NoMailOnServer</a>
No message available on queue "{QueueManager}" after {NumberOfRetryAttempts} attempt(s).	WebSphere MQ	Severe	<a href="#">NoMessageFailure</a>
No message available on queue "{QueueManager}". Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).	WebSphere MQ	Warning	<a href="#">NoMessageRetry</a>
No message available on queue {Queue}.	WebSphere MQ	Info	<a href="#">NoMessage</a>

Message	Module	Level	Notification
No return structure returned by BAPI {BAPIName}.	SAP	Severe	NonReturnStruct
No valid To, CC or BCC email address found.	Email	Severe	ToAndCCEmpty
Not a known type of group.	Scheduler	Warning	SchedulerUnknownType
Not able to connect, error is: {Message}. Establishing a new session.	Sal esforc e.com	Info	ConnectionTryAgain
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.	Sal esforc e.com	Info	StillRun
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

Message	Module	Level	Notification
Null connection return by the connection pool.	SAP	Severe	ConnectionPoolError
Number of emails on server is {NumberOfMails}.	Email	Info	Pop3NumMails
Number of parts {NumberOfParts}.	MI ME	Info	NumberOfParts
On undeploy, found task {TaskName} whose state is {State}	Mastero	Severe	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}	WebSphere MQ	Info	DetailsOpen
Operation name must not be null or empty!	Workday	Severe	OperationNameNull
Operation name must not be null or empty!	Web Service	Severe	OperationNameNull

Message	Module	Level	Notification
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
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

Message	Module	Level	Notification
Optional input parameter {ParamName} not mapped.	Salesforce.com	Info	InputParameterNotMapped
Orchestration already deployed: {OrchName}	Maestro	Severe	AlreadyDeployed
Orchestration not deployed: {OrchName}	Maestro	Severe	NotDeployed
Output parameter "{ParamName}" is over {Length} and is too large to log	Maestro	Warning	LargeOutputParameter
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
Outputted {OutputSize} objects in 'objects' output parameter.	Salesforce.com	Info	PollOutput

Message	Module	Level	Notification
PGP Exception.	Crypto Service	Severe	<a href="#">PGPEXception</a>
Parameter at paramIndex {ParamIndex} and varIndex {VariableIndex} already set	Mastero	Warning	<a href="#">ParamIndex</a>
Parameter {ParamName} is not an XML document	Mastero	Severe	<a href="#">NotDocParameter</a>
Parameter {ParamName} is null	Mastero	Severe	<a href="#">NullParam</a>
Parameters: URI: "{URIValue}", Port: {PortValue}.	HTTP	Info	<a href="#">ReceiveURIPortInfo</a>
Parameters: URL: "{URL}", Method: "{MethodName}".	HTTP	Info	<a href="#">RequestParamsDetails</a>
Parsing Error: {Message}	Data	Severe	<a href="#">ParsingError</a>
PeopleSoft Receive listening for events on URI: \"{UriValue}\" and port: \"{PortValue}\"	PeopleSoft	Info	<a href="#">ConfigURI</a>

Message	Module	Level	Notification
Please put the protocol used (e.g. {Protocol}) in front of the input parameter location: {LocationName}	Workday	Warning	<a href="#">MissingProtocol</a>
Please put the protocol used (e.g. {Protocol}) in front of the input parameter location: {LocationName}	WebService	Warning	<a href="#">MissingProtocol</a>
Poll did not return any ids for interval starting from {PollStartTime} to {PollEndTime}.	Salesforce.com	Info	<a href="#">PollReturnedNothing</a>
Poll returned {NumberOfIds} ids for interval starting from {PollStartTime} to {PollEndTime}.	Salesforce.com	Info	<a href="#">PollReturnedResults</a>
Port needs to be positive integer. Specified as: \"{PortNumber}\". Defaulted to 110.	Email	Warning	<a href="#">IncorrectPort</a>
Port needs to be positive integer. Specified as: \"{PortNumber}\". Defaulted to 25.	Email	Warning	<a href="#">IncorrectSMTPPort</a>
Post response code received from the server: {ResponseCode}	HTTP	Info	<a href="#">ServerResponseCode</a>



Message	Module	Level	Notification
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}	Sal.esfor.c.e.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}	Mastero	Severe	ProgramDestroy
Publish of Configuration {ConfigName} failed: {Message}.	Mastero	Severe	LoaderPublish
Put file summary - Directory: {DirName}, Filename: {FileName}, Overwrite? {OverwriteOption}, IsBinary? {BinaryOption}	FTP	Info	PutInfoSummary

Message	Module	Level	Notification
Putting in queue with set all privileges as {Value}	WebSphere MQ	Info	<a href="#">MQPut Details</a>
Received IDOC contains more than one type of IDOC type	SAP	Severe	<a href="#">IDOCTypeError</a>
Received an IDOC for idoc type {IDOCType} and no activity was registered to process it. Ignoring the IDOC.	SAP	Warning	<a href="#">NoHandlerError</a>
Received warning from queue manager. MQ reason code is {ReasonCode}.	WebSphere MQ	Warning	<a href="#">MQProtocolWarning</a>
Removing Connection Pool with name {PoolName}	SAP	Info	<a href="#">RemoveInfo</a>
Removing Server Gateway {GatewayName}.	SAP	Info	<a href="#">GatewayRemoveInfo</a>
Rename file summary - fromDirectory: {DirName}, fromFilename: {FromFileName}, toPath: {ToPath}, Overwrite: {OverwriteOption}	FTP	Info	<a href="#">RenameInfoSummary</a>
Renamed file from "{SrcFileName}" to "{DestFileName}" with return code {ResponseCode}.	FTP	Info	<a href="#">RenameAfter</a>

Message	Module	Level	Notification
Renaming file from "{SrcFileName}" to "{DestFileName}".	FTP	Info	RenameBefore
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	ReceiveResponseBody
Running of job for orchestration {OrchName} aborted due to large number of waiting jobs	Mastero	Severe	TooManyWaitingJobs
SAP Listener instance {InstanceNumber} started for SAP Gateway(host {HostName}, ProgramId {ProgramID}, Service {Service}).	SAP	Info	ListenerInstanceInfo
SAP TID {TID} check requested by SAP.	SAP	Info	TIDCheck

Message	Module	Level	Notification
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	ListenerStartInfo
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

Message	Module	Level	Notification
Salesforce.com logon failure. Error is: {Message}	Salesforce.com	Severe	<a href="#">LoginFailure</a>
Salesforce.com returned an unexpected error: {Message}	Salesforce.com	Severe	<a href="#">UnexpectedSFDCFault</a>
Schedules the Socket Janitor to run every {TimeInterval}	HTTP	Info	<a href="#">SocketCollectorSched</a>
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	<a href="#">UriDeprecated</a>
Sending IDOC with the TID {TID} to sap.	SAP	Info	<a href="#">TIDSentInfo</a>
Sending email to server.	Email	Info	<a href="#">SMTPSendEmail</a>
Sending request to Security Token Service at location : {Location}	STS	Info	<a href="#">RequestLocation</a>
Serialization Error: {Message}	Data	Severe	<a href="#">SerializeError</a>

Message	Module	Level	Notification
Serialization Error: {Message}	Data	Severe	SerializeIOError
Server Gateway {GatewayName} already exists, Using the existing definition.	SAP	Info	GatewayRegisterError
Session timed out. Establishing a new session.	Sal esf orc e.c om	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.	HT TP	Info	ClientIdleTimeout
Setting the client connection manager maximum number of connections at {MaxConnections}.	HT TP	Info	ClientMaxTotalConn

Message	Module	Level	Notification
Setting the client connection manager timeout at {TimeoutValue} seconds.	HT TP	I n f o	<a href="#">Client ConMg rTimeo ut</a>
Setting the client connection reclaim period at {ReclaimPeriodValue} seconds.	HT TP	I n f o	<a href="#">Client Reclai mPerio d</a>
Setting the stale connection check at {StaleConnection}.	HT TP	I n f o	<a href="#">StaleC onnect ionChe ck</a>
Setting timeout as {Timeout} milliseconds.	Em ail	I n f o	<a href="#">SetTim eout</a>
Setting timeout as {Timeout} milliseconds.	Em ail	I n f o	<a href="#">Smtpti meout</a>
Sorted {NumberOfEntries} entries	Dat a Qu alit y	I n f o	<a href="#">SortIn putEnt ryCoun t</a>
Start of Orchestration {OrchName} failed: {Message}.	Ma est ro	S e v e r e	<a href="#">Loader Start</a>
Started job for orchestration "{OrchName}"	Ma est ro	I n f o	<a href="#">TaskSt art</a>
Starting batch of size {BatchSize} for index {StartIndex} through {EndIndex}.	Sal esf orc e.c om	I n f o	<a href="#">BatchP ollStar t</a>

Message	Module	Level	Notification
Starting the idle connection timeout thread.	HT TP	I n f o	IdleCo nTime outSta rt
Stop of Orchestration {OrchName} failed: {Message}.	Ma est ro	S e v e r e	Loader Stop
Stopping the idle connection timeout thread.	HT TP	I n f o	IdleCo nTime outSto p
Sub-type: {SubType}.	MI ME	I n f o	SubTy pe
Subject pattern \"{SubjectPattern}\" incorrect. Error is: {Message}.	Em ail	S e v e r e	Subjec tPatter nError
Subscriber started successfully for the topic {TopicName}	JM S	I n f o	Subscr iberSta rtInfo
Successfully Read Private Key.	Cry pto Ser vic e	I n f o	Found Private Key
Successfully Read Public Key.	Cry pto Ser vic e	I n f o	Found Public Key
Successfully executed activity and outputted output parameter RESPONSE.	Sie bel	I n f o	Invoke Succes sful



Message	Module	Level	Notification
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}.	Mastero	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	SwapUsageCriticalOk
Swap space usage is now below the {Threshold}% warning threshold - current usage is {Usage}%	Platform	Info	SwapUsageWarnOk

Message	Module	Level	Notification
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
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	HighAvailabilityReady
The HA system is not Highly Available. Active appliance is {AffectedAppliance}.	Platform	Warning	HighAvailabilityNotReady

Message	Module	Level	Notification
The High Availability peer {AffectedAppliance} has successfully taken over.	Platform	Info	<a href="#">HighAvailabilityFailover</a>
The IDOC number {IDOCNumber} contains no data segment.	SAP	Warning	<a href="#">NoSegmentWarning</a>
The RAID array on appliance {AffectedAppliance} is degraded.	Platform	Severe	<a href="#">RAIDArrayDegraded</a>
The RAID array on appliance {AffectedAppliance} is offline. Please contact Cast Iron Support.	Platform	Severe	<a href="#">RAIDArrayOffline</a>
The RAID array on appliance {AffectedAppliance} is optimal.	Platform	Info	<a href="#">RAIDArrayOptimal</a>
The RAID disk {DiskID} on appliance {AffectedAppliance} has failed.	Platform	Severe	<a href="#">RAIDDiskFailed</a>
The RAID disk {DiskID} on appliance {AffectedAppliance} is online.	Platform	Info	<a href="#">RAIDDiskOnline</a>
The RAID disk {DiskID} on appliance {AffectedAppliance} is rebuilding.	Platform	Info	<a href="#">RAIDDiskRebuilding</a>

Message	Module	Level	Notification
The SFTP key access is: {ModeInformation}	FTP	Info	<a href="#">SshModeInfo</a>
The Socket Janitor has completed this run.	HT TP	Info	<a href="#">SockCollecto rFinish</a>
The Value:"{HeaderVal}" set for Http Header:"{HeaderName}" was ignored because the type is not supported.	HT TP	Info	<a href="#">RequestI gnoredHe ader</a>
The activity is recovering and the message with id: {MessageID} is already delivered. Skipping it	JM S	Info	<a href="#">RecoveryIn fo</a>
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.	JM S	Warning	<a href="#">FirstID</a>
The appliance {AffectedAppliance} has been opened, possibly leading to system failure. Please contact Cast Iron Support.	Plat form	Sev ere	<a href="#">Intrusi onSev ere</a>
The appliance {AffectedAppliance} has been opened.	Plat form	Warn ing	<a href="#">Intrusi onInfo rm</a>
The appliance {AffectedAppliance} is finished initializing after reboot.	Plat form	Info	<a href="#">SystemInitC omplet e</a>

Message	Module	Level	Notification
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	Master	Severe	SwitchExpEmpty
The condition provided for while activity [{ActivityName}] is empty	Master	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
The delete query issued to the buffer table is {Query}	Database	Info	DeleteSQL
The delete query, with id, issued to the buffer table is {Query}	Database	Info	DeleteSQLWithId

Message	Module	Level	Notification
The following datasource name is registered with the system.	Database	Info	<a href="#">DataSourceRegistered</a>
The input connection parameter is not mapped.	HTTP	Info	<a href="#">ReadConnectionParam</a>
The input parameter "{InputParam}" is zero length.	WebSphereMQ	Severe	<a href="#">InputParamNull</a>
The input parameter header is not set.	HTTP	Info	<a href="#">ReadInputHeaders</a>
The jms connector is in recovery mode.	JMS	Info	<a href="#">RecoveryInfo</a>
The loopback port values persisted in the sysconf: {LoopBackString}	HTTP	Info	<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!	Database	Info	<a href="#">MaxRowExceeded</a>
The message format field "{Format}" is invalid. Supported formats are MQSTR, MQHRF2, and no format.	WebSphereMQ	Severe	<a href="#">FormatError</a>
The number of attachments found is {NumberOfAttach}.	MIME	Info	<a href="#">AttachmentsFound</a>

Message	Module	Level	Notification
The provide activity is started on local transport for the URI: {URI}	Workday	Info	<a href="#">TransportInfo</a>
The provide activity is started on local transport for the URI: {URI}	WebService	Info	<a href="#">TransportInfo</a>
The query for the parameterized query activity is: {QueryString}	Database	Info	<a href="#">ParameterizedQuery</a>
The request operation failed. Exception: {Message}	HTTP	Severe	<a href="#">SendRequestOperation</a>
The required schema for {Name} is missing. The activity {ActivityName} generating schemas.	Domain	Info	<a href="#">SchemaInvoke</a>
The response Content-Encoding from the server is {ContentEncodingValue}. Decompressing the body.	HTTP	Info	<a href="#">CompressFormat</a>
The response Content-Encoding is {ContentEncodingValue}.	HTTP	Info	<a href="#">ReplyCompressFormat</a>
The response is binary.	HTTP	Info	<a href="#">ResponseBodyBinary</a>
The response is not binary.	HTTP	Info	<a href="#">ResponseBodyNotBinary</a>

Message	Module	Level	Notification
The row is already delivered to the database. Skipping it.	Database	Warning	<a href="#">RedeliverSkip</a>
The select query issued for the buffer table is {Query}	Database	Info	<a href="#">QueryString</a>
The send request failed. Exception: {Message}	HTTP	Severe	<a href="#">GeneralRequestFailed</a>
The server response contained an unsolicited Content-Encoding: {ContentEncoding}. Acceptable values are: {AcceptEncoding}	HTTP	Severe	<a href="#">UnsolicitedEncoding</a>
The stored procedure query issued to the database is {QueryString}	Database	Info	<a href="#">StoredProcQuery</a>
The type of Accept-Encoding in the request-header field is {AcceptEncodingValue}	HTTP	Info	<a href="#">AcceptEncodingType</a>
The unicode instance property is set through JCONSOLE	SAP	Info	<a href="#">UnicodeGateway</a>
The update query issued to the buffer table for marking rows is {Query}	Database	Info	<a href="#">UpdateQuery</a>



Message	Module	Level	Notification
The {Field} email address {EmailID} specified in optional parameters is not in correct format. Not setting the same.	Email	Warning	<a href="#">InvalidAddressFormat</a>
There are no more activities to listen for on port {PortNumber}. Stopping the listener on port {PortNumber}.	HTTP	Info	<a href="#">HttpListenerStop</a>
There is an unusually large file, {LargeFile}, of size {FileSize} MB.	Platform	Warning	<a href="#">LargeFileWarning</a>
There is no message to be retrieved from the destination {Destination}	JMS	Info	<a href="#">NoMessage</a>
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	Severe	<a href="#">LibraryNotInstalled</a>
This part does not have any body. Setting blank body.	MIME	Info	<a href="#">NoPartBody</a>
Tid {TIDNumber} not found in TID manager.	SAP	Severe	<a href="#">ReceiveTIDNotFound</a>

Message	Module	Level	Notification
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}	Maestro	Warning	AbandonedJobs
Trying to delete item {ItemNumber} which is out of range. Returning false	PeopleSoft	Warning	OutOfRange
Unable to compile the orchestration {OrchName}	Maestro	Severe	OrchCompileError
Unable to connect to JDE after {NumberOfRetryAttempts} attempts. Error is: {Message}	JDEwards	Severe	JDEConnectError

Message	Module	Level	Notification
Unable to connect to NetSuite after {NumberOfRetryAttempts} attempts. Error is: {Message}.	NetSuite	Severe	ConnectionFailed
Unable to connect to NetSuite. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).	NetSuite	Warning	ConnectionRetry
Unable to connect to PeopleSoft after {NumberOfRetryAttempts} attempts. Error is: {Message}	PeopleSoft	Severe	ConnectionError
Unable to connect to Salesforce.com after {NumberOfRetryAttempts} attempts. Error is: {Message}.	Salesforce.com	Severe	ConnectionFailed
Unable to connect to Salesforce.com. Error is: {Message}.	Salesforce.com	Severe	ConnectFailed
Unable to connect to Salesforce.com. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).	Salesforce.com	Warning	ConnectionRetry
Unable to connect to server after {NumberOfRetryAttempts} attempts. Error is: {Message}.	Email	Severe	ConnectError

Message	Module	Level	Notification
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="#">ConnectError</a>
Unable to connect to server. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).	Email	Warning	<a href="#">ConnectErrorRetry</a>
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>

Message	Module	Level	Notification
Unable to connect to the Queue Manager "{QueueManager}" after {NumberOfRetryAttempts} attempt(s). MQ returned error code "{ErrorCode}".	WebSphere MQ	Severe	ConnectionError
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	ConnectRetry
Unable to connect to the SAP server after {NumberOfRetryAttempts} attempts. Error is: Error Group {ErrorGroup}, Error Key {ErrorKey}, Error Message {Message}	SAP	Severe	ConnectError
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	ConnectRetry
Unable to connect to the server \"{ServerName}\" after {NumberOfRetryAttempts} attempts. Error is: {Message}	FTP	Severe	ConnectionFailure
Unable to connect to the server \"{ServerName}\". Error is: {Message} Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).	FTP	Warning	ConnectionRetry

Message	Module	Level	Notification
Unable to connect to the server. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will try again in {IntervalForRetries} second(s).	HTTP	Warning	ConnectionRetry
Unable to create call context: {Message}	Mastero	Severe	CallContext
Unable to delete rows from buffer table {TableName}.	Database	Severe	DeleteRowsFailure
Unable to enqueue to orchestration: {Message}	Mastero	Severe	EnqueueFailed
Unable to execute to orchestration: {Message}	Mastero	Severe	ExecuteError
Unable to find RFC {RFCName}. Invalid RFC name.	SAP	Severe	InvalidRFCName
Unable to find the BAPI transaction RFC's.	SAP	Severe	TransactionalError

Message	Module	Level	Notification
Unable to get message from queue {QueueName}. MQ returned error code {ErrorCode}.	WebSphere MQ	Severe	<a href="#">PollFailure</a>
Unable to get message from queue {QueueName}. MQ returned error code {ErrorCode}.	WebSphere MQ	Severe	<a href="#">GetFailure</a>
Unable to invoke method {MethodName} on the data source object. This might cause unexpected behavior. Please check the connection properties	Database	Info	<a href="#">MethodNotFound</a>
Unable to obtain meta data from Salesforce.com for {NameOfObject}. Error is: {Message}	Salesforce.com	Severe	<a href="#">MetadataObjectError</a>
Unable to obtain meta data from Salesforce.com. Error is: {Message}	Salesforce.com	Severe	<a href="#">MetadataError</a>
Unable to parse the catch expression: {Message}	Mastero	Severe	<a href="#">CatchExpression</a>
Unable to parse the date and time: {DateTimeValue} {Message}	Database	Severe	<a href="#">DateTimeParseError</a>

Message	Module	Level	Notification
Unable to parse the if-then expression: {Message}	Mastero	Severe	<a href="#">Switch Expression</a>
Unable to parse the while expression "{ConditionSpecified}": {Message}	Mastero	Severe	<a href="#">WhileExpression</a>
Unable to perform operation \"{OperationName}\". Error is: {Message}	FTP	Severe	<a href="#">OperationError</a>
Unable to process the request. Additional information about the error can be found on the Web Management Console.	Workday	Severe	<a href="#">CleanupMessage</a>
Unable to process the request. Additional information about the error can be found on the Web Management Console.	WebService	Severe	<a href="#">CleanupMessage</a>
Unable to put message on queue {QueueManager}. MQ returned error code {ErrorCode}.	WebSphereMQ	Severe	<a href="#">MQPutFailure</a>
Unable to remove task {TaskID}	Mastero	Severe	<a href="#">TaskRemove</a>



Message	Module	Level	Notification
Unable to send the SOAP request to {LocationName}. Error is: {Message}. Attempt {RetryAttemptNumber} of {TotalRetryAttempts}. Will retry again in {IntervalForRetries} second(s).	Workday	Warning	ConnectRetry
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	ConnectRetry
Unable to set state of task {CurrentState} to {FinalState}	Mastero	Severe	TaskState
Unable to set the query time out for database {DBType}. The exception is {Message}	Database	Warning	SetQueryTimeout
Unarchiver created successfully, now performing unarchiving.	Archiver	Info	UnArchiverCreated
Undeploy of Orchestration {OrchName} failed: {Message}.	Mastero	Severe	LoaderUnDeploy
Unexpected IO error while performing operation with NetSuite. The exception is {Message}	NetSuite	Severe	IOError

Message	Module	Level	Notification
Unexpected IO exception while streaming the message. The exception is {Message}	NetSuite	Severe	StreamError
Unexpected error from server: {Message}.	Email	Severe	Pop3ServerError
Unknown exception while invoking an operation on NetSuite. The exception is {Message}	NetSuite	Severe	UnknownError
Uploaded file "{FileName}" to server with return code {ResponseCode}.	FTP	Info	PutAfter
Uploading file "{FileName}" to server.	FTP	Info	PutBefore
User {UserName} displayName has been changed from {OldValue} to {NewValue}.	Platform	Info	UpdateUser
User {UserName} has been deleted.	Platform	Info	UserDeleted
User {UserName} has been granted role of {GroupName}.	Platform	Info	GrantRole
User {UserName} has been revoked of the role {GroupName}.	Platform	Info	RevokeRole

Message	Module	Level	Notification
User {UserName} status has been changed from {OldValue} to {NewValue}.	Platform	Info	<a href="#">UpdateStatus</a>
User {UserName} with session id {SessionId} logged out successfully.	Platform	Info	<a href="#">AuthLogout</a>
Validation is {ValidationStatus} for {Value}	SAP	Info	<a href="#">ValidationInfo</a>
Variable "{VariableName}" is over {Length} and is too large to log	Master	Warning	<a href="#">LargeVariable</a>
Variable "{VariableName}" is too large, please turn on persistence for this orchestration	Master	Severe	<a href="#">LargeNonpersistentVariable</a>
Variable {ParamName} is not an XML document	Master	Severe	<a href="#">NotDocVariable</a>
Variable {VarName} is null	Master	Warning	<a href="#">VariableNull</a>
Variable {VariableName} is null	Master	Severe	<a href="#">NullVariable</a>

Message	Module	Level	Notification
Warning/error messages while doing setup for {ActivityName}: {Message}	JDEdwards	Warning	<a href="#">SetupInfo</a>
Warning/error messages while initializing {ActivityName}: {Message}	PeopleSoft	Warning	<a href="#">SetupInfo</a>
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	<a href="#">UriDeprecated</a>
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	<a href="#">UriDeprecated</a>
[URI: {Uri}, Port: {Port}, Operation Name: {OperationName}] Web Service has already been registered. Key: {RegistrationKey}	WebService	Severe	<a href="#">AlreadyRegistered</a>
[URI: {Uri}, Port: {Port}, Operation Name: {OperationName}] Workday has already been registered. Key: {RegistrationKey}	Workday	Severe	<a href="#">AlreadyRegistered</a>


Message	Module	Level	Notification
[URI: {Uri}, Port: {Port}, Operation Name: {OperationName}] has not been registered. Key: {KeyName}	Workday	Severe	<a href="#">NotRegistered</a>
[URI: {Uri}, Port: {Port}, Operation Name: {OperationName}] has not been registered. Key: {KeyName}	WebService	Severe	<a href="#">NotRegistered</a>
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	<a href="#">MissingLibraries</a>
unarchiving done successfully.	Archive	Info	<a href="#">UnarchiveDone</a>
{ActivityName} activity created successfully.	Domino	Info	<a href="#">ActivityCreateSuccess</a>
{ActivityName} activity executed successfully.	Domino	Info	<a href="#">ActivitySuccessful</a>
{ActivityName} activity execution failed due to {Name} property is blank.	Domino	Severe	<a href="#">ActivateFailureBlank</a>
{ActivityName} executed and outputted response output parameter	JDEdwards	Info	<a href="#">ActivitySuccessful</a>

Message	Module	Level	Notification
{ActivityName} executed and outputted response output parameter	PeopleSoft	Info	ActivitySuccessful
{ActivityName} listening for events on URI: \"{UriValue}\" and port: \"{PortValue}\".	Siebel	Server	ConfigURI
{FileName}: File with the same name exists on the FTP server. It is a duplicate!	FTP	Server	PutDuplicateFileName
{FileName}: File with the same name exists on the FTP server. It is a duplicate!	FTP	Server	RenameDuplicateError
{MessageType} messages while executing activity: {Message}	Domino	Warning	RunningMessages
{MessageType} messages while executing activity: {Message}	PeopleSoft	Warning	RunningMessages
{Message}	HTTP	Info	EndpointInformation

Message	Module	Level	Notification
{Message}	Workday	Severe	<a href="#">WDFaultString</a>
{Message}	Web Service	Severe	<a href="#">WSFaultString</a>
{NumberOfEmails} mails to be deleted now as they were processed earlier.	Email	Info	<a href="#">MailsToBeDeleted</a>

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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 .

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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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## 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.
<code>enter exactly as shown</code>	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.
<code>net set interface dataaddress &lt;port-address&gt;</code>	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 or Cloud 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}clO20r2ZJMJcDrNwXQzhWB8YcdI=</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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## 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
- orcmon.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 is 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.

[TOP](#)

## 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](#)
- [isUserEnabled](#)
- [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>B0097A43C5527FA552C3DDBA7EF74CE9</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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## 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>
```

---

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00009.html>

## 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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http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00010.html

## 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>B47EAE6AD14AA028B4EA038CB742D0</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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http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00011.html

## 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>B0097A43C5527FA552C3DDBA7EF74CE9</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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00015.html>

## 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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## 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>

```

```
</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.

---

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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/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.

---

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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/ci00027.html>

## 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.

---

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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/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>
```

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>
```

---

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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/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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.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/"
xmlns:sec="http://www.approuter.com/
schemas/2008/1/security">
  <soapenv:Header>
    <sec:sessionId>B0097A43C5527FA552C3DDBA7EF74CE9</sec:sessionId>
  </soapenv:Header>
  <soapenv:Body>
    <sec:getScopesByParentId>
      <sec:parentScopeId>BB173AE61484BD7359D8910789EA4E88</
      sec:parentScopeId>
    </sec:getScopesByParentId>
  </soapenv:Body>
</soapenv:Envelope>
```

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"
xmlns:ns3="http://www.approuter.com/schema/
router/1000/security/03">
      <ns2:scopes>
        <active>true</active>
        <displayName>Staging</displayName>
        <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>
  </S:Body>
</S:Envelope>
```

```
<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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file:///dcs/markdown/workspace/Transform/out.html

<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>965AAB3FED8D3CCBBE4DC8EE0E2944EA</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>
        <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.

---

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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>
      </ns2:users>
    </ns2:getUsersResponse>
  </S:Body>
</S:Envelope>
```

```

<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}8eQYsQgWL3V0sLf7akuJO5wM11c=</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}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:users>
<ns2:users>
  <ns3:id>B77F69E6D9488E2607B02076B4F848DC</ns3:id>
  <ns3:name>support@mycompany.com</ns3:name>
  <ns3:encPasswd>{SHA}Ek2MpQlE1+fGMEYolkSF6lpbNIk=</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>
  <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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## 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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## isUserEnabled

---

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:isUserEnabled>
      <sec:username>webman</sec:username>
    </sec:isUserEnabled>
  </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:isUserEnabledResponse xmlns:ns2="http://www.approuter.com/
schemas/2008/1/security" xmlns:ns3="http://www.approuter.com/schema/
router/1000/security/03">
      <ns2:isUserEnabled>true</ns2:isUserEnabled>
    </ns2:isUserEnabledResponse>
  </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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00042.html>

## 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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00043.html>

## 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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00044.html>

## 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>8F059BWEA3611033D27773A95404641</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/"
xmlns: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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00049.html>

## 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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00051.html>

## 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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00052.html>

## 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/"
xmlns:sec="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>
</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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00053.html>

## 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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00056.html>

## 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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00057.html>

## 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>
```

```
</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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## 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.

---

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## 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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## 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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00097.html>

## 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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## 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>AACA96757B36C2B4582C811197EE43C0</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>
```


```
</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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00100.html>

## 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/"
xmlns:dep="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>
```

---

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## 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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---

## 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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00107.html>

## 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/](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/](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>AAC96757B36C2B4582C811197EE43C0</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.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/"
  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>
</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>
        <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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00115.html>

## 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/"
xmlns: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>
</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: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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.doc/ci00116.html>



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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## 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>AACA96757B36C2B4582C811197EE43C0</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>
      </dep:values>
    </dep:saveOrchestrationValues>
  </soapenv:Body>
</soapenv:Envelope>
```


```
<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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file:///dcs/markdown/workspace/Transform/out.html

<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/"
xmlns: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>
</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>
```

---

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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>
```

## 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>
```

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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00128.html>

## 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>

## Orcmon

---

Information about the orcmon WSDL.


Using the orcmon 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.

–Setting status as negative gets all status.

–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.

---

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 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.

---

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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/ci00132.html>

## getMonitoringProperties

---

Gets the properties for managing orchestration monitoring data.

Applies to Integration Appliances only.

Returns:

The monitoring properties.

---

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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/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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00134.html>

## 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:searchJobs>
  </soapenv:Body>
</soapenv:Envelope>
```



```

    <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_ADCF71CC
D81139F8CF16F815998B4B73" 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.

---

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<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](#)

---

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<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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00138.html>

## 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/"
xmlns: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/"
xmlns: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>
```

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## 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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00148.html>

## 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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00151.html>

## 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>
      </ns3:networkStatus>
    </ns3:getNetworkConfigurationResponse>
  </S:Body>
</S:Envelope>
```


```

<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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00160.html>

## 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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00153.html>

## 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>
      </sys:networkType>
    </sys:setNetworkConfiguration>
  </soapenv:Body>
</soapenv:Envelope>
```


```

</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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00154.html>

## 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>
```


```
</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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00156.html>

## 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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<http://pic.dhe.ibm.com/infocenter/wci/v7r0m0/topic/com.ibm.wci.api.doc/ci00157.html>

## 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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## 소개

IBM® Cast Iron® CDK(Connector Development Kit) 개발자 안내서는 Cast Iron Studio (Studio) 개발 플랫폼을 사용하여 애플리케이션 시스템 또는 기타 데이터 소스에서 데이터를 추출하는 플러그인 커넥터를 개발하고 배치할 개발자를 위한 서적입니다.

커넥터는 외부 애플리케이션의 API를 Cast Iron 개발 플랫폼에 노출시켜 Studio의 핵심 기능을 향상시킵니다. API는 새 라이브러리 및 오브젝트 유형을 사용하여 스크립팅 엔진을 확장하고, 외부 시스템에서 Cast Iron 실제 또는 가상 통합 어플라이언스로 알림 이벤트를 공개합니다. Cast Iron 어플라이언스는 FTP, SFTP, HTTP, HTTPS, 이메일(SMTP, POP), SAP, MQ, 웹 서비스 및 여러 상용 데이터베이스 시스템과 같은 유형의 엔드포인트로의 연결을 지원합니다.

각 커넥터에는 디자인할 때 커넥터가 Studio에서 사용할 수 있는 연관된 XML 디스크립터 파일이 있습니다. XSD(XML Schema Definition) 파일은 XML 파일의 요소 및 속성을 정의합니다.

Cast Iron 개발 플랫폼에서 개발 프로세스를 안내하는 CDK 커넥터 마법사를 실행합니다. Studio에서는 개발 시간을 획기적으로 줄일 수 있는 직관적인 끌어서 놓기 인터페이스를 제공합니다.

이 안내서에서는 커넥터의 개요를 제공하고, Cast Iron 개발 플랫폼 컴포넌트에 대해 소개하고, 커넥터를 개발하고 배치하는 데 필요한 단계별 프로시저를 제공합니다.

## 전제조건

커넥터 개발에 포함된 많은 작업은 Studio에서 수행되는데, 이는 Studio 및 Cast Iron 제품에 대해 알고 있어야 함을 의미합니다. 또한 다음 언어 및 파일 유형에 대해서도 알고 있어야 합니다.

- XML(Extensible Markup Language)
- WSDL(Web Services Description Language)
- XSLT(Extensible Stylesheet Language Transformations)

참고: 여러 활동에 대해 Studio는 매개변수 구조를 엔드포인트로 보내거나 엔드포인트로부터 받을지 여부를 판별하는 "발견" 프로세스를 지원합니다. 디자인할 때 입력 활동을 발견하면 추상 WSDL 또는 스키마 요소 유형을 사용해야 합니다. 요소를 추상으로 선언하면 대체 그룹을 사용해야 합니다. 추상 버전을 사용할 수 없는 경우 WSDL 파일 또는 스키마를 수정해야 합니다. 그런 다음 디자인할 때 추상 파일을 실제 데이터 유형으로 대체합니다. 추상 파일에 대한 자세한 정보는 [활동 추가 창 사용](#)의 내용을 참조하십시오.

## 디자인 고려사항

웹에서 서비스로 제공되는 애플리케이션 지향 소프트웨어에 대한 최근의 폭발적인 성장으로 인해 매우 중요한 프로젝트에 대한 효율적인 가이드라인을 구현하게 되었습니다. 디자인 활동을 주의깊게 계획하면 프로젝트 성공을 도울 수 있습니다.

개발을 시작하기 전에 다음 가이드라인을 주의깊게 고려해 보십시오.

- **태스크 및 사용자 분석** - 프로젝트를 시작하기 전에 일반 사용자가 수행할 태스크를 고려하십시오. 스키마 파일에서 제공한 요소 및 XML 파일의 구성 특성을 사용하여 Studio 및 해당 기능에 대한 사용자 액세스 레벨을 제어할 수 있습니다. 예를 들어 사용자에게 대한 엔드포인트를 정의하여 오케스트레이션에 추가할 수 있는 활동 수를 제한하거나 늘릴 수 있습니다. 또한 일반 사용자가 태스크를 수행하는 **방법**에 대해 이해하는 것이 중요합니다. 사용자가 필요로 하는 순서대로 정보를 제공하여 프로젝트가 문제없이 통합되도록 돕고 사용자 경험을 통합할 수 있습니다.
- **이름 지정 규칙** - 최종 기한이 임박하여 프로젝트를 수행할 때 가끔 애플리케이션의 컴포넌트 레이블 지정을 급하게 시도합니다. 예를 들어 엔드포인트 패널을 디자인할 때 더 중요한 기능 태스크로 이동할 수 있도록 '유형' 필드를 빨리 정의하려고 하는 경향이 있을 수 있습니다. 그러나 임의의 혼란스러운 이름 지정 스키마가 발생할 때 직관적인 이

를 지정 예시의 이점은 지금은 알 수 없을 때가 많습니다. 일단 배치하면 커넥터가 계속해서 사용되므로 반드시 논리적이고, 일관되며, 직관적인 이름 지정 규칙을 사용하십시오.

## 시작하기 전에

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프로젝트를 시작하기 전에 다음 정보를 수집하십시오. 다음을 액세스할 수 있으면 개발 프로세스를 더 순조롭게 진행할 수 있습니다.

- 연결 필드 - 엔드포인트에 연결하는 데 필요한 연결 필드 세부사항(예: 이름 및 유형)을 지정하기 위해 준비하십시오.
- 입력 활동 - 디자인할 때 입력 활동을 동적으로 발견하는지 여부와 입력 활동이 정적인지 여부를 판별하십시오.
- 입력 및 출력 데이터 유형 - 각 활동에서 지원하는 입력 및 출력 데이터 유형을 표시하기 위해 준비하십시오.
- [이 책의 구성](#)

## 이 책의 구성

---

이 문서는 지면을 최소화하여 개발 프로젝트를 시작할 수 있도록 디자인되었습니다. 제 1 장에서는 CDK 커넥터 마법사에 대해 소개하고 프로젝트 진행에 필요한 프로시저를 제공합니다. 그러나 개발을 시작하기 전에 CDK 개발 플랫폼에 대해 더 알아보려면 시작하기 전에 몇 분 동안 제 4 장 [CDK 컴포넌트](#)의 정보를 검토해 보십시오.

이 안내서는 다음 절로 구성되어 있습니다.

- [CDK 커넥터 마법사 시작하기](#)  
CDK 커넥터 마법사에 대해 소개하고 커넥터 빌드를 위한 단계별 지시사항을 제공합니다.
- [테스트 및 디버그](#)  
커넥터 테스트 및 디버깅을 위한 프로시저를 제공합니다.
- [커넥터 프로젝트 내보내기 및 가져오기](#)  
커넥터 프로젝트를 내보내거나 가져오는 방법에 대한 정보를 제공합니다.
- [Cast Iron CDK 컴포넌트](#)  
Studio 개발 플랫폼의 개요를 제공하고 CDK 컴포넌트에 대해 소개합니다.
- [FAQ](#)  
자주 질문되는 내용(FAQ)에 대한 일부 응답을 제공합니다.
- [도움말 보기](#)  
IBM 자원 정보를 제공하고 도움을 얻을 수 있는 방법을 알려줍니다.

상위 주제: [디자인 고려사항](#)

## CDK 커넥터 마법사 시작하기

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CDK 커넥터 마법사는 커넥터에 대한 기본 세부사항을 입력하는 일련의 세 개의 창을 통해 개발 프로세스를 안내합니다. 이 마법사는 Studio에 대한 테스트, 보충 및 배치를 수행할 수 있는 오케스트레이션을 생성합니다.

## 프로시저

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1. Studio를 시작하십시오.
2. 파일 -> 새 커넥터 프로젝트를 선택하십시오.

## 결과

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Studio 작업공간에서 마법사가 열리고 커넥터 정보 창이 표시됩니다.

## 다음에 수행할 작업

---

다음 단계에서는 커넥터 정보 창을 사용하여 커넥터에 대한 기본 정보를 추가합니다.

- **커넥터 정보 창**  
이 단계에서 커넥터에 대한 일반 정보(예: 이름, 버전 및 설명)를 커넥터 정보 창에 추가하고 커넥터 활동에 사용되는 WSDL 또는 스키마 파일을 추가합니다.
- **연결 필드 추가 창 사용**  
연결 필드 추가 창에서 사용자에게 노출되는 엔드포인트 연결 매개변수를 지정합니다. 사용자는 이러한 값을 사용하여 엔드포인트에 연결합니다.
- **활동 추가 창 사용**  
활동 추가 창에서 커넥터 활동을 작성 및 정의하고 입력 및 출력 데이터 정보를 입력합니다.
- **최종 요약 창**  
개발 완료 단계에서 최종 요약 창은 생성된 오케스트레이션을 완료하고 프로젝트를 커넥터 저장소로 내보낼 준비가 되었음을 알립니다.
- **오케스트레이션 완료**  
오케스트레이션을 완료하면 이를 Studio로 내보낼 수 있습니다. 커넥터 오케스트레이션 이외에 Cast Iron 커넥터 인터페이스에 대한 오케스트레이션도 완료해야 합니다.
- **Cast Iron 커넥터 인터페이스**  
Cast Iron 커넥터는 오케스트레이션으로 구현되는 표준 인터페이스입니다(예: TestConnection, ListObjects 및 DescribeObjects).
- **커넥터 인터페이스 오케스트레이션 완료**  
이 단계에서 Cast Iron TestConnection, ListObjects 및 DescribeObjects 오케스트레이션에 비즈니스 로직을 추가합니다.
- **로컬 저장소에 공개**  
이 단계에서는 Studio가 오케스트레이션을 유효성 검증합니다. 유효성 검증에 성공하면 테스트 및 디버깅을 위해 로컬 컴퓨터에 있는 저장소에 커넥터를 공개할 수 있습니다.

## 커넥터 정보 창

---

이 단계에서 커넥터에 대한 일반 정보(예: 이름, 버전 및 설명)를 커넥터 정보 창에 추가하고 커넥터 활동에 사용되는 WSDL 또는 스키마 파일을 추가합니다.

## 이 태스크 정보

---

커넥터 정보 창에서 커넥터 프로젝트에 대한 기본 세부사항을 입력합니다. 커넥터 정보 창은 다음과 같습니다.  
그림 1. 커넥터 정보 창

### Connector Information

Provide Connector Name, Version and Description

Provide Basic Connector Detail

Name:  Description:

Version:

Add WSDL Or Schema Files

Add WSDL/Schema:

Add Schema or WSDL file

## 프로시저

- 이름 텍스트 필드에서 커넥터의 이름을 입력하십시오.  
참고: NCName에 대한 현실적인 제한사항으로 인해 이름 텍스트 필드의 문자에 , @, \$, %, &, /, +, ,, ;, 공백 또는 다른 소괄호를 사용할 수 없습니다. 또한 이름 텍스트 필드의 문자는 숫자, 점 또는 빼기(-) 문자로 시작될 수 없으며 NCName에서 이후 문자에는 사용될 수 있습니다.
- 설명 텍스트 필드에서 커넥터에 대한 설명을 입력하십시오.
- 버전 텍스트 필드에서 커넥터의 버전 번호를 입력하십시오.
- WSDL 또는 스키마 파일을 추가하려면 **찾아보기** 단추를 클릭하고 원하는 파일을 탐색하십시오. 선택된 파일은 WSDL/스키마 파일 추가 필드에 표시됩니다.  
참고: 디자인할 때 입력 활동이 동적으로 발견되면 이 단계를 위한 추상 유형을 포함하는 WSDL 또는 스키마를 제공해야 합니다. 추상 파일에 대한 정보는 [활동 추가 창 사용](#)의 내용을 참조하십시오.
- 다음을 클릭하십시오.

## 결과

연결 필드 추가 창이 표시됩니다.

## 다음에 수행할 작업

다음 단계에서는 연결 필드 추가 창을 사용하여 엔드포인트 연결 특성을 지정합니다.

상위 주제: [CDK 커넥터 마법사 시작하기](#)

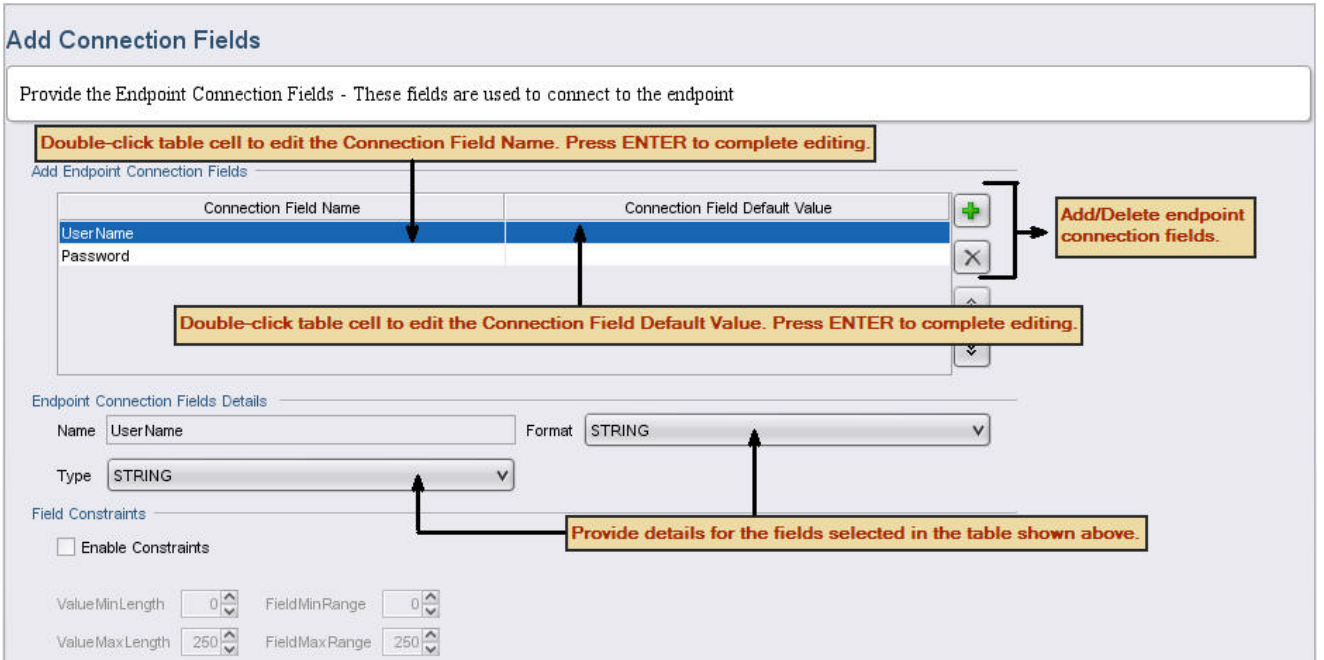
## 연결 필드 추가 창 사용

연결 필드 추가 창에서 사용자에게 노출되는 엔드포인트 연결 매개변수를 지정합니다. 사용자는 이러한 값을 사용하여 엔드포인트에 연결합니다.

## 이 태스크 정보

이 디자인 단계에서 연결 필드 및 엔드포인트에 연결하는 데 필요한 해당 세부사항을 추가합니다. 연결 필드 추가 창은 다음과 같습니다.

그림 1. 연결 필드 추가 창



## 프로시저

1. 더하기(+) 아이콘을 클릭하십시오. 엔드포인트 연결 필드 추가 패널에 공백의 연결 필드가 표시됩니다.
2. 엔드포인트 연결 필드 추가 패널에서 필드 유형(예: 비밀번호)을 입력하여 사용자 이름과 연관된 비밀번호를 지정하십시오. 편집을 시작하려면 연결 필드 이름 셀의 행을 두 번 클릭하여 활성화한 다음 정보를 입력하십시오. 완료하면 **Enter**를 누르십시오. 필드 유형 정보가 이름 필드에 표시됩니다.
3. 엔드포인트 연결 필드 세부사항 패널에서 유형 및 형식 드롭 다운 메뉴를 클릭하고 엔드포인트 연결 필드 추가 패널에 입력한 정보에 해당하는 카테고리를 선택하십시오. 엔드포인트 연결 필드 추가 패널에서 필드 유형(예: 비밀번호)을 입력하여 사용자 이름과 연관된 비밀번호를 지정하십시오.
4. 추가 연결 필드를 추가하려면 이 단계를 반복하십시오. 추가 필드를 추가한 후에 다음을 클릭하십시오.

## 결과

활동 추가 창이 표시됩니다.

## 다음에 수행할 작업

다음 단계에서는 활동 추가 창에서 커넥터 활동을 정의합니다.

상위 주제: [CDK 커넥터 마법사 시작하기](#)

## 활동 추가 창 사용

활동 추가 창에서 커넥터 활동을 작성 및 정의하고 입력 및 출력 데이터 정보를 입력합니다.

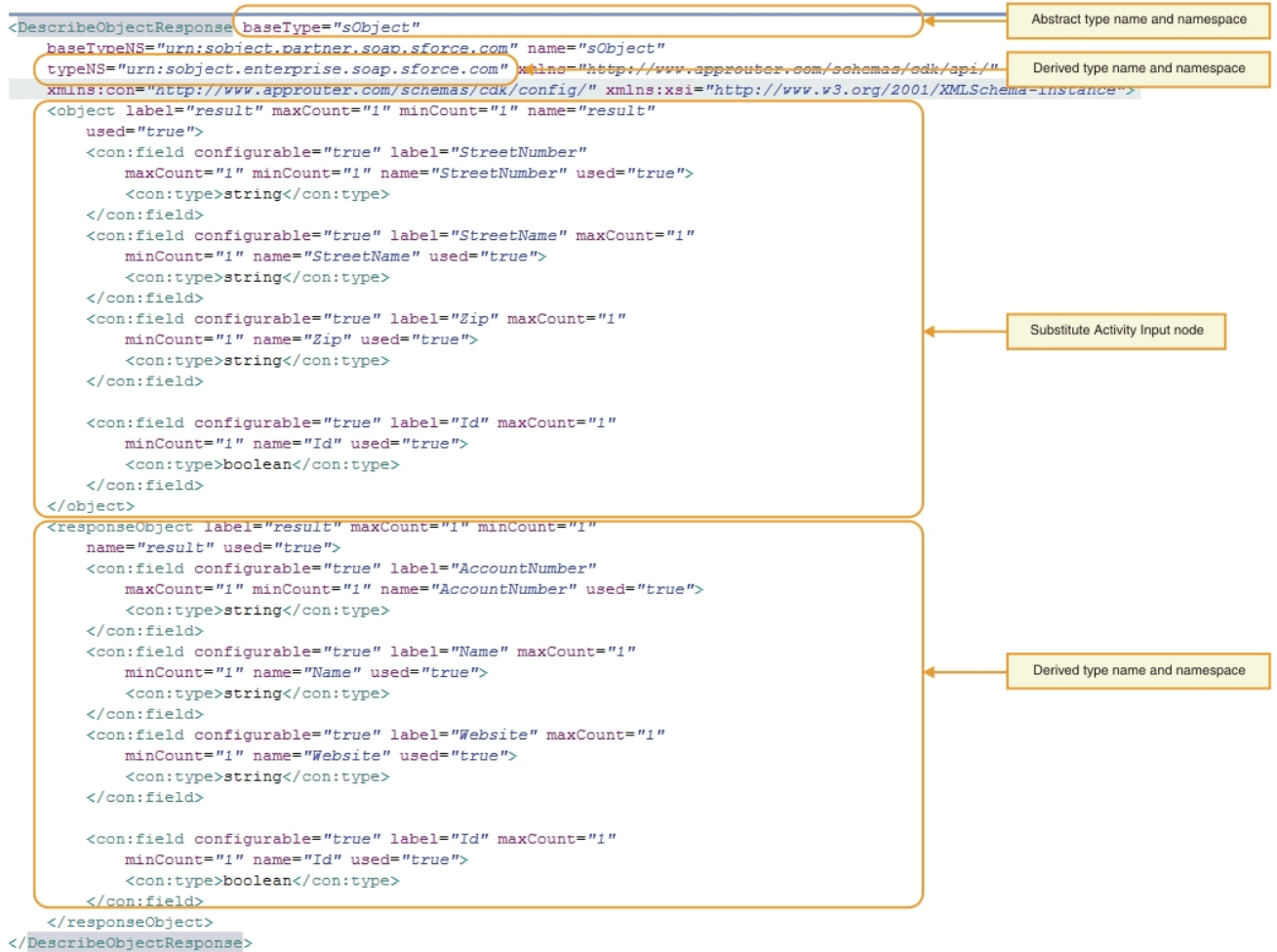
## 이 태스크 정보

이 단계에서 디자인할 때 입력 데이터를 정적 또는 동적으로 발견할지 여부를 지정합니다. 예를 들어 디자인할 때 데이터를 발견하면 작성 활동을 사용하여 계정, 담당자 또는 사용자와 같은 다른 오브젝트 유형을 작성합니다. 작성 활동에 대한 입력

데이터는 작성할 오브젝트에 따라 다릅니다. 이러한 상황에서 작성은 검색 가능 활동으로 인식되며 입력 데이터는 생성할 오브젝트에 따라 다릅니다.

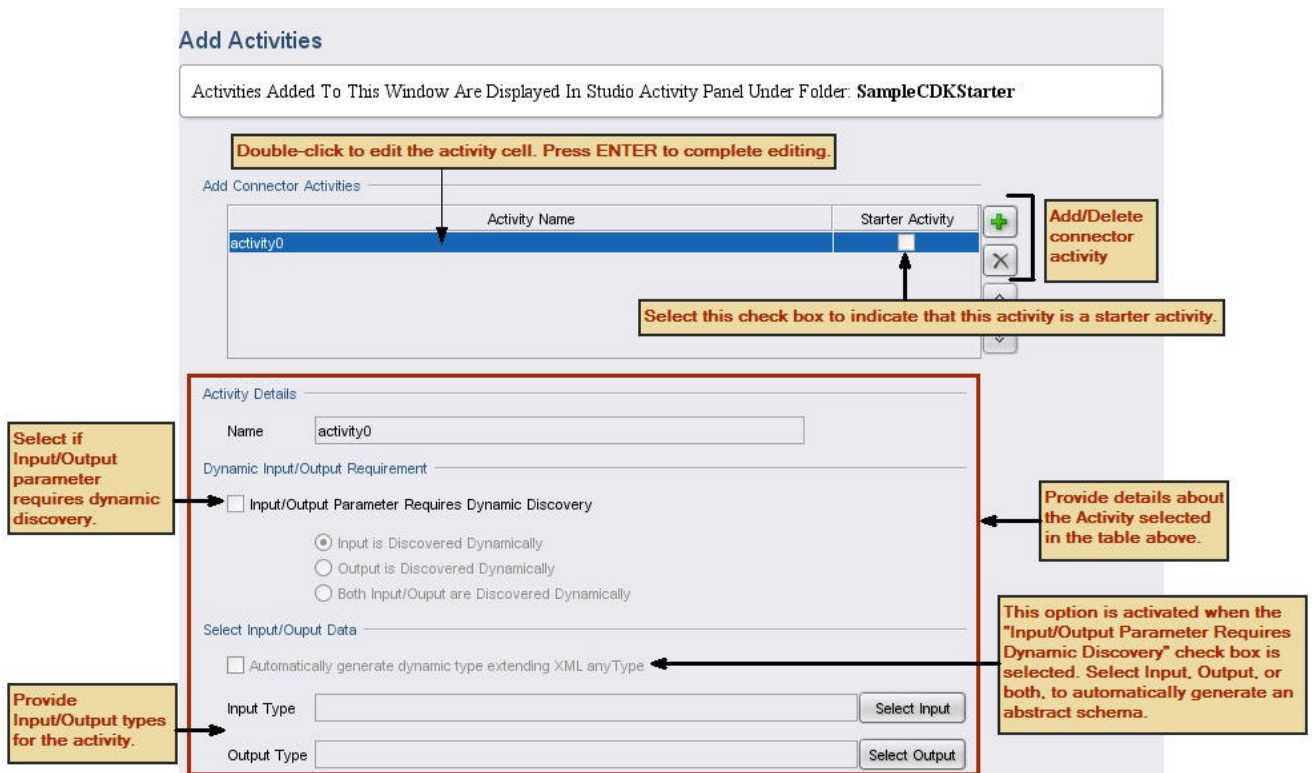
참고: 디자인할 때 입력 활동을 검색 가능으로 설정하려면 추상 WSDL 또는 스키마 유형을 제공해야 합니다. 엔드포인트에서 서비스를 구현하는 방법을 정의하는 구체적인 WSDL 또는 스키마 유형이 네트워크에서 노출되는 것과 반대로 추상 WSDL 또는 스키마 유형은 구현 중립적인 관점에서 웹 서비스에 대해 설명합니다. 그림 1에서는 추상 유형 정의가 있는 WSDL의 예를 보여줍니다.

그림 1. 추상 정의가 있는 WSDL



활동 추가 창은 다음과 같습니다.

그림 2. 활동 추가 창



## 프로시저

1. 더하기(+) 아이콘을 클릭하십시오. 커넥터 활동 추가 패널에 공백의 텍스트 필드가 표시됩니다.
2. 커넥터 활동 추가 패널에서 새 활동 이름을 추가하십시오. 편집을 시작하려면 활동 이름 셀의 행을 두 번 클릭하여 활성화한 다음 정보를 입력하십시오. 완료하면 **Enter**를 누르십시오.  
참고: NCName에 대한 현실적인 제한사항으로 인해 이름 텍스트 필드의 문자에 , @, \$, %, &, /, +, ,, ;, 공백 또는 다른 소괄호를 사용할 수 없습니다. 또한 이름 텍스트 필드의 문자는 숫자, 점 또는 빼기(-) 문자로 시작될 수 없으며 NCName에서 이후 문자에는 사용될 수 있습니다.
3. 커넥터 활동 추가 패널에서 시작 활동 선택란을 선택하여 선택된 활동이 시작 활동인지 여부를 표시합니다.
4. 동적 입력/출력 요구사항 패널에서 입력 매개변수, 출력 매개변수 또는 둘 다가 동적 발견을 필요로 하는지를 지정합니다. 디자인할 때 입력 활동을 검색 가능으로 설정하려면 추상 스키마 유형을 제공해야 합니다.
5. 매개변수에서 동적 발견이 필요한 경우 입력/출력 데이터 선택 패널에서 입력 선택 또는 출력 선택 단추를 사용하여 각 활동에 대한 입력 및/또는 출력 데이터를 선택하십시오. 참고: 둘 이상의 활동에 대해 특정 입력 데이터 유형을 지정하지 마십시오.  
참고: 시작 활동에는 출력 유형만 있습니다. 따라서 활동 세부사항 섹션에서 출력 유형만 선택할 수 있습니다.
6. 각 새 활동에 대해 이 단계를 반복하십시오.
7. 완료되면 다음을 클릭하십시오.

## 결과

최종 요약 창이 표시됩니다.

## 다음에 수행할 작업

최종 요약 창에서 결과를 보십시오.

상위 주제: [CDK 커넥터 마법사 시작하기](#)

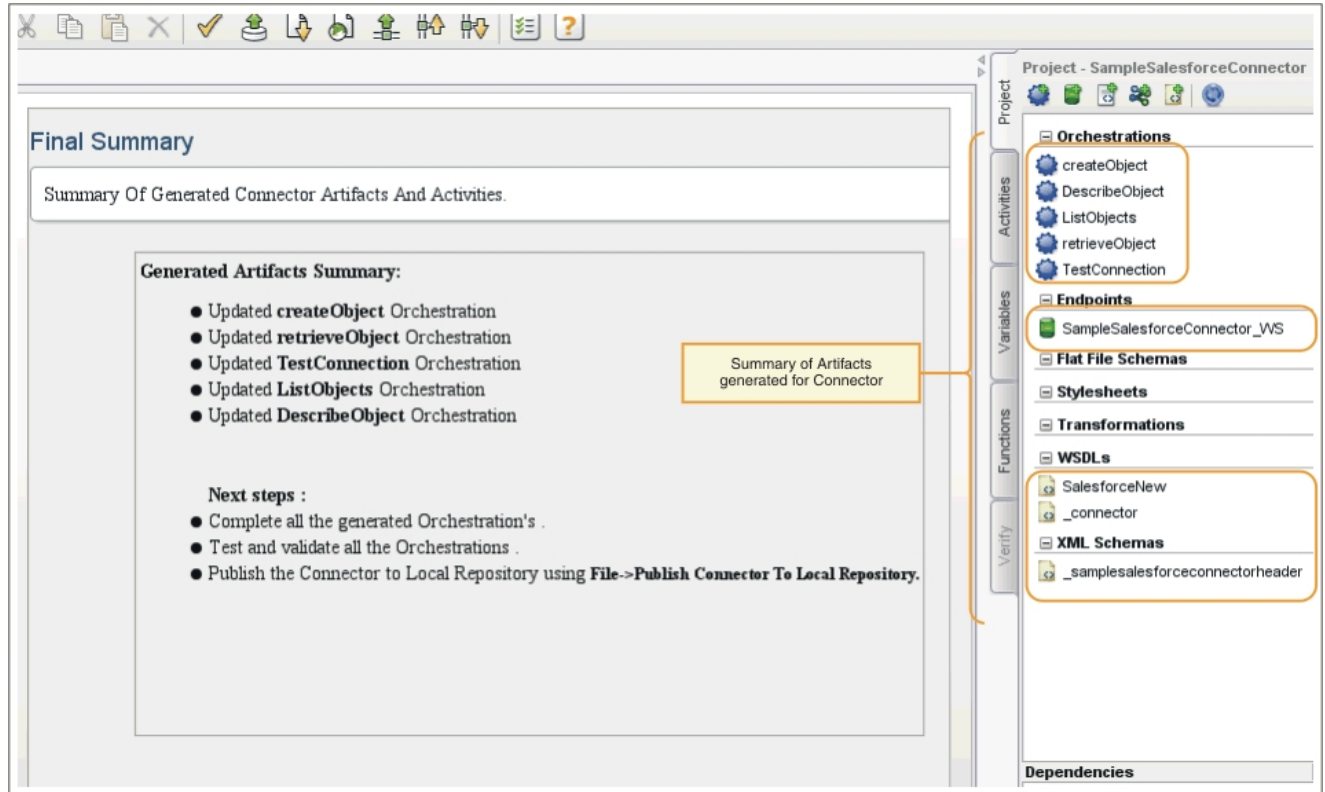


## 최종 요약 창

개발 완료 단계에서 최종 요약 창은 생성된 오케스트레이션을 완료하고 프로젝트를 커넥터 저장소로 내보낼 준비가 되었음을 알립니다.

최종 요약 창에서는 커넥터 활동이 생성되었는지 확인합니다. 최종 요약 창은 다음과 같습니다.

그림 1. 최종 요약 창



상위 주제: [CDK 커넥터 마법사 시작하기](#)

## 오케스트레이션 완료

오케스트레이션을 완료하면 이를 Studio로 내보낼 수 있습니다. 커넥터 오케스트레이션 이외에 Cast Iron 커넥터 인터페이스에 대한 오케스트레이션도 완료해야 합니다.

### 이 태스크 정보

개발 작업이 완료되면 다음 프로시저를 수행하여 커넥터 오케스트레이션을 완료하십시오. [Cast Iron 커넥터 인터페이스](#)에서는 Cast Iron TestConnection, ListObjects 및 DescribeObjects 커넥터 인터페이스를 소개하고 각각에 대한 오케스트레이션을 완료하기 위한 프로시저를 제공합니다.

이 단계에서 웹 서비스 서비스 제공 활동에서 입력 데이터를 읽고, 로직을 추가하고, 응답 발송 출력 활동으로 응답하여 커넥터 오케스트레이션을 완료합니다. 서비스 제공 활동은 외부 클라이언트로부터 시작될 수 있는 웹 서비스를 제공합니다. 런타임 중에 응답 발송 활동은 클라이언트에 응답을 리턴합니다.

### 프로시저

1. 프로젝트 도구 상자 탭에서 오케스트레이션(예: CreateObjects)을 선택하십시오. Studio 작업공간에 오케스트레이션이 표시됩니다.
2. 오케스트레이션에서 서비스 제공 활동을 클릭하십시오. 출력 맵핑 패널이 표시됩니다.
3. 출력 맵핑 패널에서 본문을 클릭하십시오. 입력 데이터가 표시되는 노드 유형 창이 표시됩니다.
4. 노드 유형 창에 있는 정보를 사용하여 본문 데이터를 맵핑하고 이 데이터를 사용하여 엔드포인트에서 오브젝트를 작성하십시오.
5. 오케스트레이션 -> 유효성 검증을 선택하십시오.

참고: 시작 활동을 위해 생성된 오케스트레이션에는 서비스 제공 및 서비스 호출 활동이 있습니다. 시작 활동 구현의 일부로 필요한 데이터를 폐치하고 마지막에 이 값을 사전 생성된 서비스 호출 활동에 전달합니다. 서비스 호출 활동은 오케스트레이션의 마지막 활동이어야 합니다. 또한 선택적 매개변수 location을 사전 생성된 서비스 제공 활동에 대한 ConnectionFields 헤더의 일부로 받은 callbackURL로 채우십시오.

## 결과

유효성 검증 결과가 표시되는 유효성 검증 결과 창이 표시됩니다.

## 다음에 수행할 작업

Cast Iron TestConnection, ListObjects 및 DescribeObjects 커넥터 인터페이스에 대한 오케스트레이션을 완료하십시오.

상위 주제: [CDK 커넥터 마법사 시작하기](#)

## Cast Iron 커넥터 인터페이스

Cast Iron 커넥터는 오케스트레이션으로 구현되는 표준 인터페이스입니다(예: TestConnection, ListObjects 및 DescribeObjects).

TestConnection, ListObjects 및 DescribeObjects 인터페이스에 대한 오케스트레이션 템플릿은 활동 추가 단계에서 마법사에 의해 자동으로 작성됩니다. 개별 커넥터 요구사항을 기반으로 오케스트레이션을 완료해야 합니다. 이 절에서는 TestConnection, ListObjects 및 DescribeObjects 인터페이스에 대해 소개합니다. [커넥터 인터페이스 오케스트레이션 완료](#)에서 각각에 대한 오케스트레이션을 완료합니다.

### TestConnection

TestConnection 인터페이스는 연결 정보 창에 추가된 값을 반영하고 커넥터가 엔드포인트 연결을 구축하는 데 사용됩니다. 연결이 작성되면 연결 상태가 부울 연산자로 리턴됩니다.

### ListObjects

ListObjects 인터페이스는 활동 추가 창에 추가된 값을 반영하고 특정 커넥터 활동이 지원하는 모든 오브젝트 목록을 리턴합니다. 예를 들어 Salesforce 작성 조작이 계정, 고객, 담당자, 기회 및 사용자와 같은 오브젝트를 지원할 수 있습니다. 리턴 목록은 ListObjects 응답 활동 스키마에 해당해야 합니다. 다음은 XML 형식의 ListObjects 응답 예입니다.

```
<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

DescribeObjects 인터페이스는 사용자가 커넥터 활동을 통해 노출된 오브젝트를 사용하여 작업할 수 있는 입력 및 출력을 제공합니다. 예를 들어 Salesforce 작성 조작이 선택되면 ListObjects에서 선택된 오브젝트를 기반으로 하여 입력 스키마가 동적으로 발견됩니다. 다음은 DescribeObjects에서 리턴된 응답의 예입니다.

```

<DescribeObjectResponse baseType="sObject"
  baseTypeNS="urn:object.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>

```

```

maxCount="1"
used="true">
    <con:field configurable="true" label="Status"
        minCount="1" name="Status"
        <con:type>string</con:type>
    </con:field>
</responseObject>
</DescribeObjectResponse>

```

## 동적 스키마 발견

DescribeObjects 스키마 발견 기능을 사용하여 런타임 시 스키마를 동적으로 발견합니다. 커넥터 활동이 스키마 요소를 입력 또는 출력으로 사용할 때 이 스키마를 오케스트레이션으로 가져옵니다. `complexType QName`을 사용하여 이전에 가져온 스키마를 발견하고 이를 입력 또는 출력 활동으로 동적으로 대체해야 할 경우 다음 스키마에서와 같이 DescribeObject 응답에서 속성을 설정하십시오.

```

< 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 >

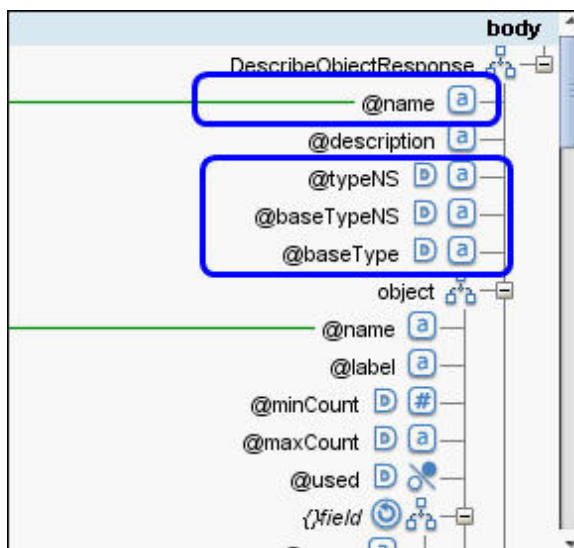
```

예를 들어 앞의 스키마에서 `complexType tradingPartner`를 대체하려면 스키마를 발견할 정보를 설정하고 다음 예에서 표시된 대로 이를 동적으로 대체하십시오.

```

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]

```



상위 주제: [CDK 커넥터 마법사 시작하기](#)

## 커넥터 인터페이스 오케스트레이션 완료

---

이 단계에서 Cast Iron TestConnection, ListObjects 및 DescribeObjects 오케스트레이션에 비즈니스 로직을 추가합니다.

- [TestConnection 오케스트레이션 완료](#)  
다음 단계에서 값을 오브젝트 유형에 매핑하고, 오케스트레이션 활동을 호출하여 엔드포인트 연결을 테스트합니다.
- [ListObjects 오케스트레이션 완료](#)  
이 단계에서 ListObjects 오케스트레이션에 비즈니스 로직을 추가하고, 이 값을 오브젝트 유형에 매핑한 후, 오케스트레이션 활동을 호출하여 엔드포인트 연결을 테스트합니다. 디자인할 때 오케스트레이션 활동을 발견할 수 있는 경우에만 이 절의 프로시저를 완료하십시오.
- [DescribeObjects 오케스트레이션 완료](#)  
DescribeObjects 오케스트레이션을 완료하려면 출력을 입력 데이터에 매핑하고, 오브젝트 메타데이터를 XML 형식으로 변환하여 `ci-connector-api.xsd` 파일로 일치시킨 후, 오케스트레이션을 테스트합니다.

상위 주제: [CDK 커넥터 마법사 시작하기](#)

## TestConnection 오케스트레이션 완료

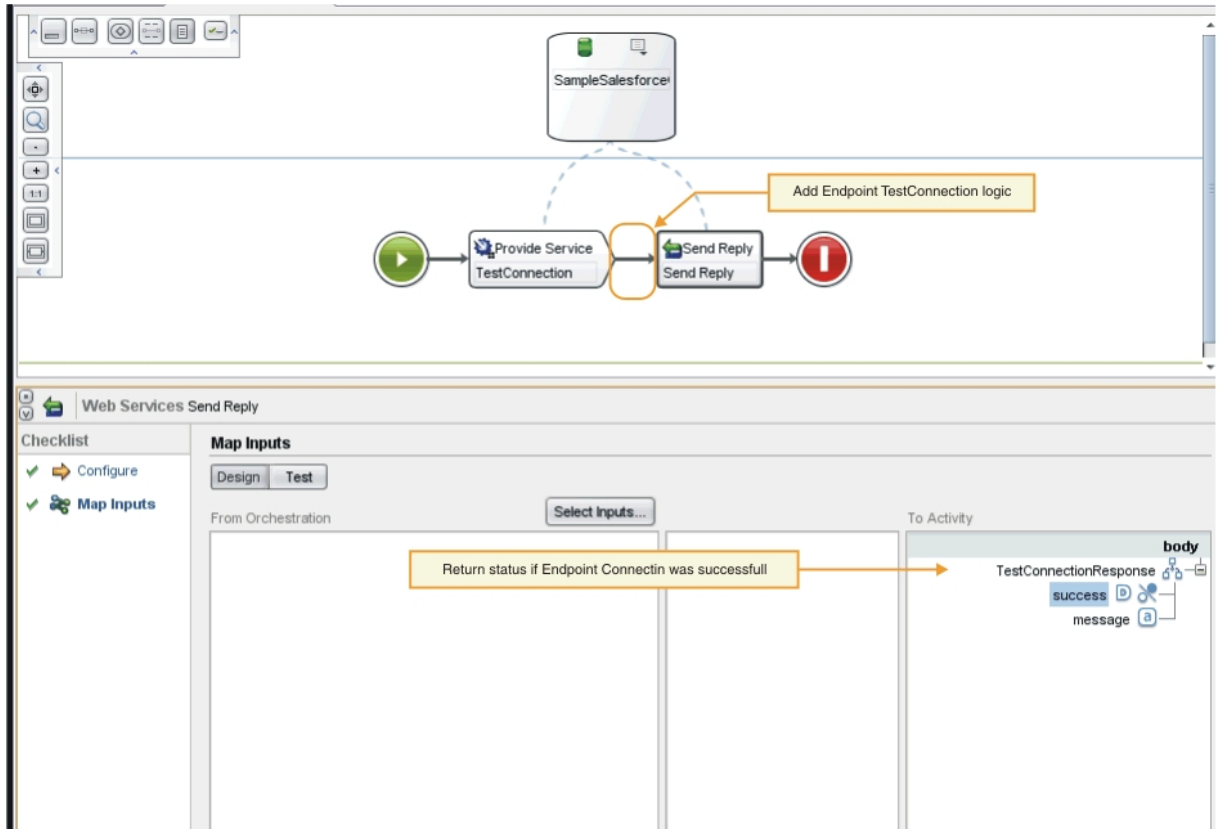
---

다음 단계에서 값을 오브젝트 유형에 매핑하고, 오케스트레이션 활동을 호출하여 엔드포인트 연결을 테스트합니다.

### 프로시저

---

1. Studio 프로젝트 도구 상자 탭에서 **TestConnection** 오케스트레이션을 클릭하십시오. Studio 작업공간에 오케스트레이션이 표시됩니다.
  2. 오케스트레이션에서 엔드포인트 연결에 필요한 로직을 추가하십시오([그림 1](#)에 표시).
  3. 오케스트레이션에서 **응답 발송** 활동을 클릭하십시오. 입력이 시작 오케스트레이션으로부터 패널에 표시됩니다.
- 그림 1. TestConnection



4. 시작 오케스트레이션 패널에 표시된 값을 대상 활동 패널에 있는 오브젝트 유형으로 맵핑하십시오. 이제 오케스트레이션을 테스트할 준비가 되었습니다.
5. 오케스트레이션에서 서비스 제공 활동을 마우스 오른쪽 단추로 클릭하십시오. 활동 확인 메뉴가 표시됩니다.
6. 활동 확인 메뉴에서 서비스 호출을 선택하십시오. 서비스 호출 창이 표시됩니다.
7. 서비스 호출 창에서 헤더와 본문 데이터를 입력하고 실행을 클릭하여 테스트를 시작하십시오. 테스트 활동을 보려면 응답 표시 단추를 클릭하십시오. 테스트가 완료되면 활동 도구 상자 탭에 결과가 표시됩니다.
8. 연결에 성공하면 테스트 응답이 "true" 값을 표시합니다. 오케스트레이션을 완료하려면 대상 활동 패널의 TestConnectionResponse 매개변수의 성공 필드를 "true"로 맵핑하십시오.

## 다음에 수행할 작업

디자인할 때 커넥터 활동을 발견할 수 있는 경우 [ListObjects 오케스트레이션 완료](#)의 프로시저를 완료하십시오. 커넥터 활동을 발견할 수 없는 경우 [DescribeObjects 오케스트레이션 완료](#)로 이동할 수 있습니다.

상위 주제: [커넥터 인터페이스 오케스트레이션 완료](#)

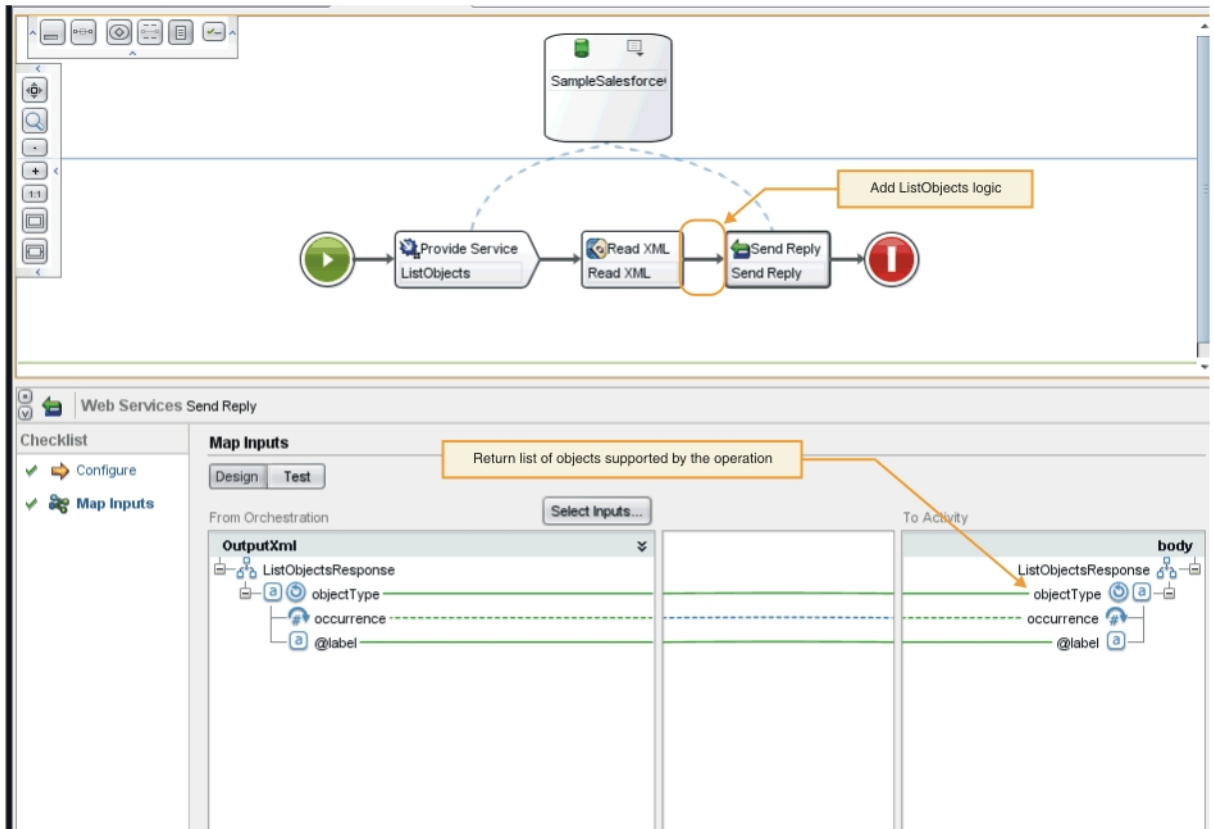
## ListObjects 오케스트레이션 완료

이 단계에서 ListObjects 오케스트레이션에 비즈니스 로직을 추가하고, 이 값을 오브젝트 유형에 맵핑한 후, 오케스트레이션 활동을 호출하여 엔드포인트 연결을 테스트합니다. 디자인할 때 오케스트레이션 활동을 발견할 수 있는 경우에만 이 절의 프로시저를 완료하십시오.

### 프로시저

1. Studio 프로젝트 도구 상자 탭에서 **ListObjects** 오케스트레이션을 클릭하십시오. Studio 작업공간에 오케스트레이션이 표시됩니다.
2. ListObjects 오케스트레이션에서 [그림 1](#)에 표시된 로직을 추가하십시오. 제공된 엔드포인트의 커넥터가 지원하는 오브젝트 목록이 대상 활동 패널에 표시됩니다.

그림 1. ListObjects



3. 오케스트레이션에서 응답 발송 활동을 선택하십시오. 입력이 시작 오케스트레이션으로부터 패널에 표시됩니다.
4. 시작 오케스트레이션 패널에서 활동을 클릭하십시오. 조각에서 지원하는 오브젝트 목록이 대상 활동 패널에 표시됩니다.
5. 시작 오케스트레이션 패널에 표시된 값을 ListObjectsResponse의 대상 활동 패널에 있는 오브젝트 유형으로 매핑하십시오(그림 1에 표시). 이제 오케스트레이션을 테스트할 준비가 되었습니다.
6. 오케스트레이션에서 서비스 제공 활동을 마우스 오른쪽 단추로 클릭하십시오. 활동 확인 메뉴가 표시됩니다.
7. 활동 확인 메뉴에서 서비스 호출을 선택하십시오. 서비스 호출 창이 표시됩니다.
8. 서비스 호출 창에서 헤더와 본문 데이터를 입력하고 실행을 클릭하여 테스트를 시작하십시오. 테스트 활동을 보려면 응답 표시 단추를 클릭하십시오.

## 결과

테스트가 완료되면 활동 도구 상자 탭에 결과가 표시됩니다. 오류가 표시되면 필요한 정정 조치를 수행한 후 단위 테스트를 다시 실행하십시오.

## 다음에 수행할 작업

DescribeObjects 오케스트레이션을 완료하십시오.

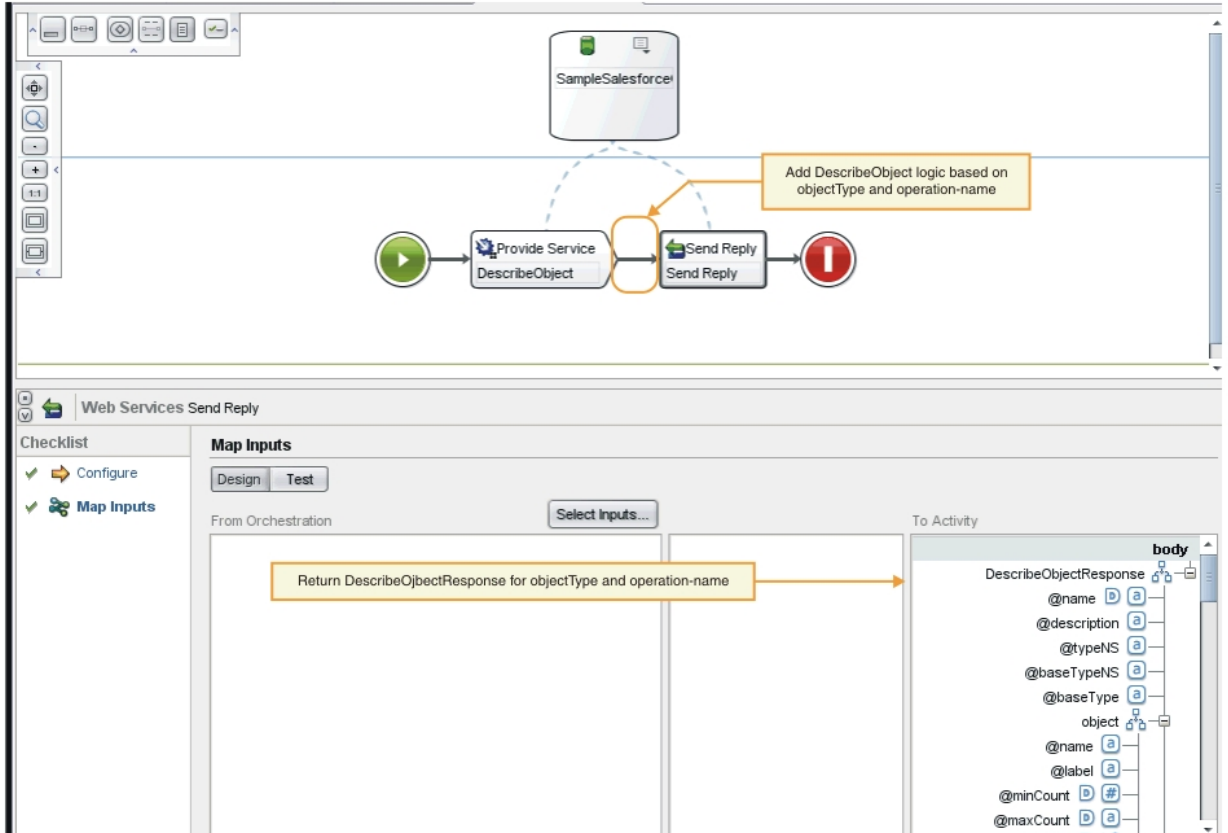
상위 주제: [커넥터 인터페이스 오케스트레이션 완료](#)

## DescribeObjects 오케스트레이션 완료

DescribeObjects 오케스트레이션을 완료하려면 출력을 입력 데이터에 매핑하고, 오브젝트 메타데이터를 XML 형식으로 변환하여 `ci-connector-api.xsd` 파일로 일치시킨 후, 오케스트레이션을 테스트합니다.

1. Studio 프로젝트 도구 상자 탭에서 **DescribeObjects** 오케스트레이션을 클릭하십시오. Studio 작업공간에 오케스트레이션이 표시됩니다.
2. 오케스트레이션에서 서비스 제공 활동을 클릭하십시오. 출력 맵핑 패널이 표시됩니다.
3. 출력 맵핑 패널에서 본문을 클릭하십시오. 입력 데이터가 표시되는 노드 유형 창이 표시됩니다.
4. object 및 operation\_name을 기반으로 하는 오케스트레이션에 로직을 추가하여(그림 1에 표시) 오브젝트 메타데이터를 얻으십시오.

그림 1. DescribeObjects



5. ci-connector-api.xsd 파일에 일치하도록 오브젝트 메타데이터를 XML 형식으로 변환하십시오(Cast Iron CDK 스키마 파일에 설명). 메타데이터를 XML로 변환하면 스키마가 다음과 같이 표시됩니다.

```
< DescribeObjectResponse
baseType = "sObject"
baseTypeNS = "urn:object.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. DescribeObjects 오케스트레이션에서 **응답 발송** 활동을 선택하십시오. 출력 맵핑 패널이 표시됩니다.
7. 입력 맵핑 패널에서 생성된 XML을 대상 활동 패널의 DescribeObjectResponse 매개변수로 맵핑하십시오. 이제 오케스트레이션을 테스트할 준비가 되었습니다.
8. 오케스트레이션에서 **서비스 제공** 활동을 마우스 오른쪽 단추로 클릭하십시오. 활동 확인 메뉴가 표시됩니다.
9. 활동 확인 메뉴에서 **서비스 호출**을 선택하십시오. 서비스 호출 창이 표시됩니다.
10. 서비스 호출 창에서 헤더와 본문 데이터를 입력하고 **실행**을 클릭하여 테스트를 시작하십시오. 테스트 활동을 보려면 **응답 표시** 단추를 클릭하십시오.

## 결과

---

테스트가 완료되면 활동 도구 상자 탭에 결과가 표시됩니다. 오류가 표시되면 필요한 정정 조치를 수행한 후 단위 테스트를 다시 실행하십시오.

## 다음에 수행할 작업

---

다음 단계에서 로컬 저장소에 커넥터 프로젝트를 공개하는 방법에 대해 학습합니다.

상위 주제: [커넥터 인터페이스 오케스트레이션 완료](#)

## 로컬 저장소에 공개

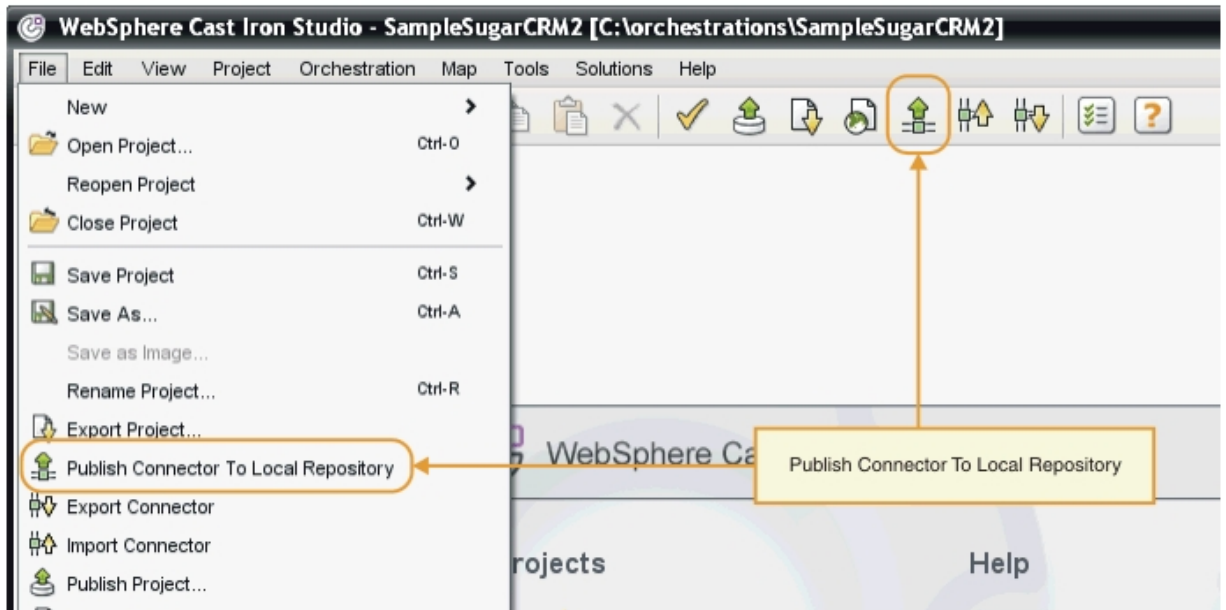
---

이 단계에서는 Studio가 오케스트레이션을 유효성 검증합니다. 유효성 검증에 성공하면 테스트 및 디버깅을 위해 로컬 컴퓨터에 있는 저장소에 커넥터를 공개할 수 있습니다.

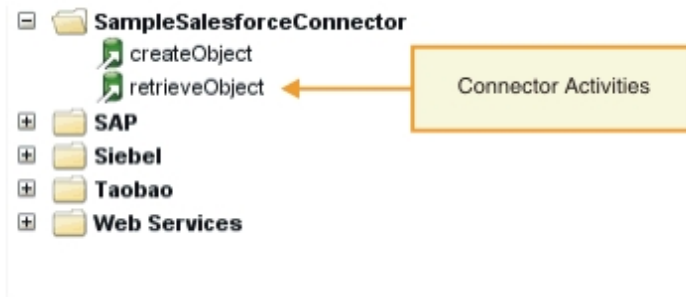
## 프로시저

---

1. **파일** -> **로컬 저장소에 커넥터 공개**를 선택하거나 **공개 도구 모음** 아이콘(그림 1에 표시)을 클릭하십시오. Studio에서 오케스트레이션을 유효성 검증합니다. 유효성 검증에 성공하면 `<user_home>/castiron/connector-repository`에서 커넥터가 커넥터 저장소에 공개됩니다. 유효성 검증에 실패하면 오류 메시지가 표시됩니다. 문제점을 정정하고 다시 공개하십시오.
  2. Studio를 다시 시작하십시오. 커넥터 활동이 Studio 활동 도구 상자 탭에 표시되면 사용 가능한 상태가 됩니다.
- 그림 1. 로컬 저장소에 커넥터 공개



개발 작업이 완료되면 커넥터 및 커넥터 활동이 Studio 활동 도구 상자 탭에 표시됩니다(그림 2에 표시).  
 그림 2. Studio 활동 도구 상자 탭에 표시되는 커넥터 및 커넥터 활동



참고: 오류가 발생하므로 커넥터 프로젝트를 어플라이언스에 직접 배치하지 마십시오. 좋은 결과를 위해 Studio에서 엔드포인트로 표시되는 커넥터 프로젝트만 배치하십시오.

## 다음에 수행할 작업

다음 절에서는 런타임 유효성 검증을 수행하고 엔드포인트를 테스트합니다.

상위 주제: [CDK 커넥터 마법사 시작하기](#)

## 테스트 및 디버그

Studio에서는 커넥터 컴포넌트를 테스트하는 몇 가지 기능을 제공합니다. 테스트 및 디버그 단계에서는 커넥터를 테스트하고 구성 또는 데이터 오류를 진단하는 런타임 유효성 검증을 수행합니다. 모든 아웃바운드 엔드포인트를 테스트해야 합니다.

커넥터를 테스트할 때 Studio 빌드 프로세스는 XML 파일의 양식이 올바른지 확인하고 스키마 파일에 대해 XML 파일을 유효성 검증합니다. 그런 다음 아웃바운드 맵핑을 생성하고, 아웃바운드 메시지를 작성하고 보내며, 응답을 받고, 인바운드 맵핑을 실행합니다. CDK는 다음 두 가지 유형의 테스트를 수행합니다.

- 단위 테스트
- 통합 테스트
- [커넥터 컴포넌트 단위 테스트](#)  
 단위 테스트는 개발 프로젝트의 성공을 위한 핵심이며 기본적으로 커넥터의 컴포넌트가 예상대로 수행되는지 확인

하는 성공/실패 테스트입니다.

- 커넥터 서비스 및 활동 통합 테스트

통합 테스트를 수행하는 중에 커넥터 서비스, 메시지 및 인터페이스가 제대로 수행되는지 유효성 검증합니다.

## 커넥터 컴포넌트 단위 테스트

단위 테스트는 개발 프로젝트의 성공을 위한 핵심이며 기본적으로 커넥터의 컴포넌트가 예상대로 수행되는지 확인하는 성공/실패 테스트입니다.

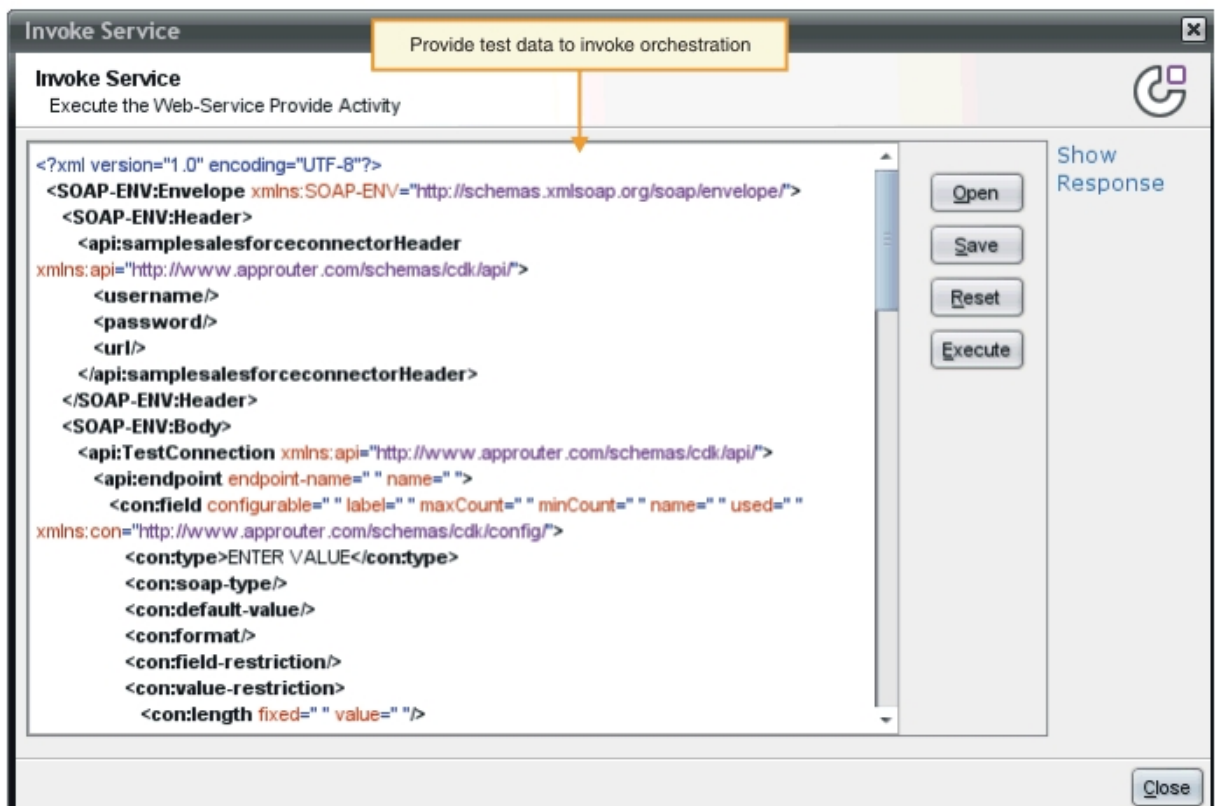
### 이 태스크 정보

이 단계에서는 Web Service 제공 활동으로 표시되는 클라이언트와 웹 서비스 간의 통신을 시뮬레이션하는 단위 테스트를 수행합니다.

### 프로시저

1. 프로젝트 도구 상자 탭에서 오케스트레이션을 선택하십시오. Studio 작업공간에 오케스트레이션이 표시됩니다.
2. 오케스트레이션에서 서비스 제공 활동을 마우스 오른쪽 단추로 클릭하십시오. 활동 확인 메뉴가 표시됩니다.
3. 활동 확인 메뉴에서 서비스 호출을 선택하십시오. 서비스 호출 창이 표시됩니다(그림 1에 표시).
4. 서비스 호출 창에서 헤더와 본문 데이터를 입력하고 실행을 클릭하여 테스트를 시작하십시오. 테스트 활동을 보려면 응답 표시 단추를 클릭하십시오.

그림 1. 서비스 호출 창



참고: 재설정 단추를 사용할 때 주의하십시오. 이는 서비스 호출 창에서 기존 콘텐츠를 지우고 웹 서비스 템플릿 정보로 다시 채웁니다. 단위 테스트에서 시작할 경우에만 재설정을 클릭하십시오.

### 결과

테스트가 완료되면 활동 도구 상자 탭에 결과가 표시됩니다. 오류가 표시되면 필요한 정정 조치를 수행한 후 단위 테스트를 다시 실행하십시오.

## 다음에 수행할 작업

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커넥터 컴포넌트가 제대로 수행되는지 여부를 판별하려면 통합 테스트를 수행하십시오.

상위 주제: [테스트 및 디버그](#)

## 커넥터 서비스 및 활동 통합 테스트

---

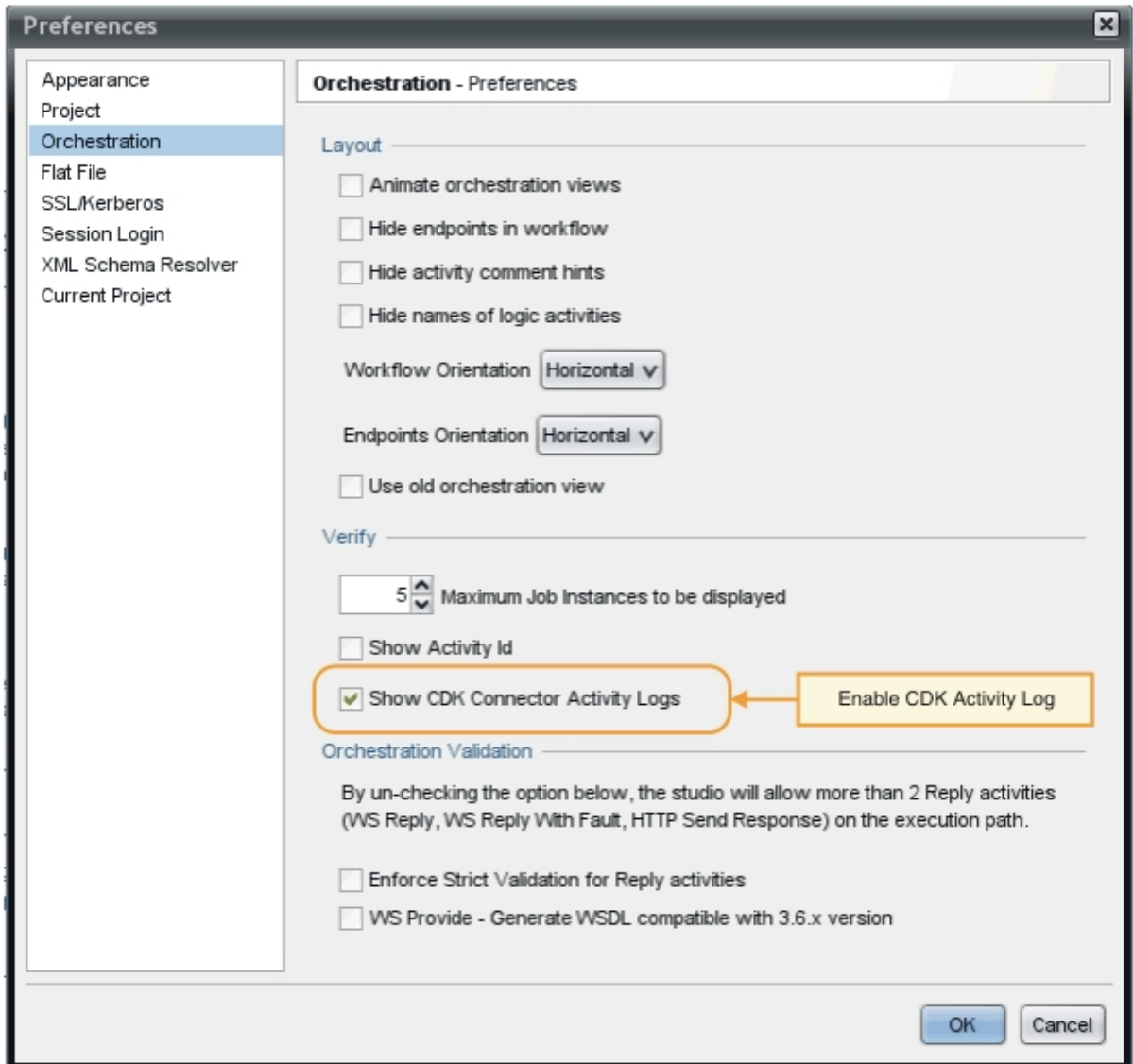
통합 테스트를 수행하는 중에 커넥터 서비스, 메시지 및 인터페이스가 제대로 수행되는지 유효성 검증합니다.

### 프로시저

---

1. 프로젝트 도구 상자 탭에서 오케스트레이션을 선택하십시오. Studio 작업공간에 오케스트레이션이 표시됩니다.
2. 활동 도구 상자 탭에서 활동을 선택하고 이를 오케스트레이션으로 끌어서 놓으십시오.
3. Studio 작업공간에서 활동을 클릭하십시오. 활동이 강조표시됩니다.
4. 체크리스트 패널에서 **엔드포인트** 선택을 클릭하십시오. 엔드포인트 선택 패널이 표시됩니다.
5. 엔드포인트 선택 패널에서 **새로 작성**을 클릭하십시오. 엔드포인트 작성 패널이 표시됩니다.
6. 엔드포인트 작성 패널에서 연결 정보를 입력하고 **TestConnection**을 클릭하십시오.
7. 연결이 작성되면 **확인**을 클릭하십시오.
8. 체크리스트 패널에서 **구성**을 클릭하십시오. 구성 패널이 표시됩니다.
9. 선택사항: 구성 패널에서 **찾아보기**를 클릭하여 검색 가능한 활동을 검색하십시오(이 단계는 검색 불가능 활동에 대해서는 필요하지 않음). ListObject 대화 상자 창이 표시됩니다.
10. ListObjects 대화 상자 창에서 선택된 활동에 대한 입력으로 사용할 스키마를 선택하십시오.
11. 입력 및 출력 매핑을 완료하십시오.
12. 오케스트레이션을 테스트하십시오. 프로세서 활동을 보려면 Studio 환경 설정 창에서 **CDK 커넥터 활동 로그 표시 옵션**([그림 1](#)에 표시)을 선택하십시오.

그림 1. 환경 설정 창



## 결과

프로세서 활동 및 마지막 테스트 결과가 Studio 확인 도구 상자 탭에 표시됩니다.

## 다음에 수행할 작업

다음 절에서는 커넥터 프로젝트를 내보내고 가져오는 방법에 대해 학습합니다.

상위 주제: [테스트 및 디버그](#)

## 커넥터 프로젝트 내보내기 및 가져오기

커넥터를 작성하여 테스트하면 이를 외부 위치로 내보내어 다른 사용자가 사용하도록 할 수 있습니다. 또한 커넥터 아카이브 파일을 Studio로 가져올 수 있습니다.

Studio 메뉴를 사용하거나 내보내기 또는 가져오기 도구 모음 아이콘을 클릭하여 커넥터 프로젝트를 내보내고 가져올 수 있습니다.

참고: 오류가 발생하므로 커넥터 프로젝트를 어플라이언스에 직접 배치하지 마십시오. 좋은 결과를 위해 Studio에서 엔드 포인트로 표시되는 커넥터 프로젝트만 배치하십시오.

- [커넥터 프로젝트 내보내기](#)  
완료된 커넥터를 Studio에서 외부 위치로 내보내면 다른 사용자가 이를 로드하여 사용할 수 있습니다. 내보낸 커넥터는 표준 .zip 파일로 패키징됩니다.
- [커넥터 프로젝트 가져오기](#)  
Studio를 사용하여 표준 압축 파일 아카이브로 개발된 커넥터 프로젝트를 가져올 수 있습니다.

## 커넥터 프로젝트 내보내기

---

완료된 커넥터를 Studio에서 외부 위치로 내보내면 다른 사용자가 이를 로드하여 사용할 수 있습니다. 내보낸 커넥터는 표준 .zip 파일로 패키징됩니다.

### 이 태스크 정보

---

Studio 메뉴 옵션 또는 도구 모음을 사용하여 커넥터를 내보낼 수 있습니다. 디렉토리를 지정하지 않으면 내보낸 커넥터 프로젝트가 프로젝트 디렉토리의 서브디렉토리에 위치하게 됩니다. 아카이브 파일로 내보내도록 선택한 경우 프로젝트는 프로젝트 디렉토리에서 .zip 아카이브로 패키징됩니다.

### 프로시저

---

1. **파일** -> **커넥터 내보내기**를 선택하거나 **커넥터 내보내기** 도구 모음 아이콘을 클릭하십시오. 사용 가능한 커넥터 목록을 표시하는 파일 대화 상자 창이 표시됩니다.
2. 파일 대화 상자 창에서 커넥터를 선택하고 **확인**을 클릭하십시오. 저장 대화 상자 창이 표시됩니다.
3. 저장 대화 상자 창에서 프로젝트를 내보낼 위치를 찾은 후 **저장**을 클릭하십시오.

### 결과

---

커넥터를 표준 .zip 아카이브로 내보냅니다.

### 다음에 수행할 작업

---

다음 절에서는 커넥터 프로젝트를 가져오는 방법에 대해 학습합니다.  
상위 주제: [커넥터 프로젝트 내보내기 및 가져오기](#)

## 커넥터 프로젝트 가져오기

---

Studio를 사용하여 표준 압축 파일 아카이브로 개발된 커넥터 프로젝트를 가져올 수 있습니다.

### 이 태스크 정보

---

Studio 메뉴 옵션 또는 도구 모음을 사용하여 커넥터를 Studio로 가져올 수 있습니다.

### 프로시저

---

1. **파일** -> **커넥터 가져오기**를 선택하거나 **커넥터 가져오기** 도구 모음 아이콘을 클릭하십시오. 파일 대화 상자 창이 표시됩니다.
2. 파일 대화 상자 창에서 커넥터를 선택하고 **확인**을 클릭하십시오.

### 결과

---

.zip 아카이브의 커넥터를 Studio로 가져옵니다.

## 다음에 수행할 작업

---

다음 절에서는 CDK 컴포넌트의 개요가 제공됩니다.

상위 주제: [커넥터 프로젝트 내보내기 및 가져오기](#)

## Cast Iron CDK 컴포넌트

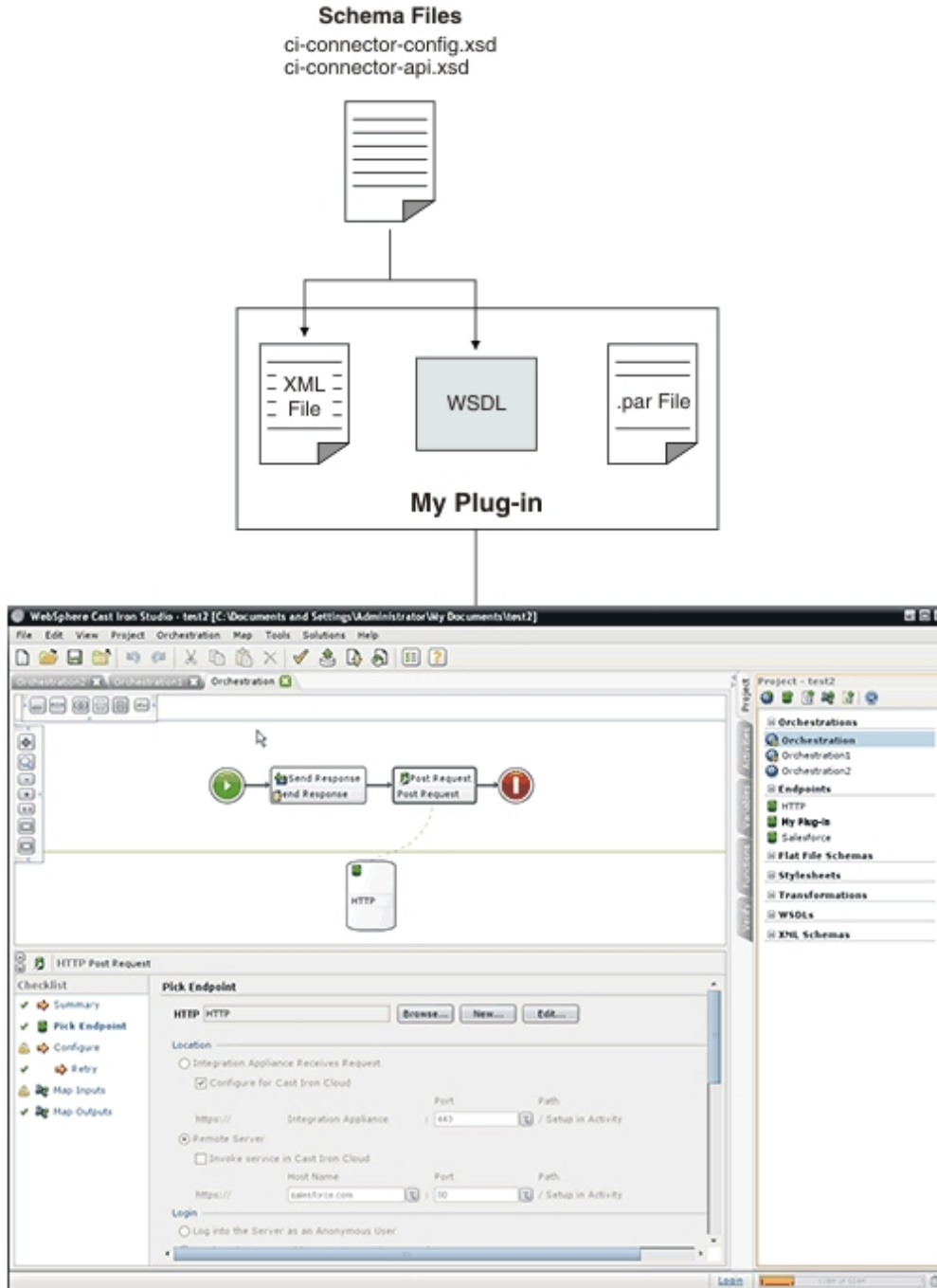
---

Connector Developer Kit에는 CDK 개발 플랫폼을 구성하기 위해 함께 작업하는 기본 컴포넌트가 포함되어 있습니다.

그림 1에서는 컴포넌트를 표시하고 Studio와의 관계를 나타냅니다.

그림 1. CDK 컴포넌트





- **Cast Iron CDK 스키마 파일**

XML 스키마 파일은 구문을 제공하고 요소 및 속성이 XML 파일에서 표시되는 방법을 정의합니다. Cast Iron CDK 스키마 파일을 Studio 개발 환경으로 가져온 후 프로젝트 도구 상자 탭에서 오케스트레이션으로 스키마 요소를 끌어서 엔드포인트 및 연결을 작성합니다.

- **Cast Iron CDK XML 파일**

XML 파일은 플러그인에서 수행하는 활동을 정의합니다. XML 파일의 모든 활동은 WSDL 파일에 정의된 조작에 맵핑되어야 합니다.

- **Cast Iron CDK WSDL 파일**

WSDL 파일은 네트워크 서비스를 엔드포인트 세트로 정의하는 XML 형식 파일입니다. WSDL 파일은 웹 서비스에 액세스하는 방법에 대해 설명하고 서비스가 수행하는 조작을 지정합니다. WSDL은 일반적으로 웹 서비스 제공자에 의해 개발되고 UDDI(Universal Description, Discovery and Integration) 레지스트리를 통해 사용 가능하게 됩니다.

- [Cast Iron CDK .par 파일](#)  
플러그인은 .par 파일로 패키징됩니다. .par은 이름을 바꾸어 Studio로 가져오는 표준 .zip 파일입니다.

## Cast Iron CDK 스키마 파일

XML 스키마 파일은 구문을 제공하고 요소 및 속성이 XML 파일에서 표시되는 방법을 정의합니다. Cast Iron CDK 스키마 파일을 Studio 개발 환경으로 가져온 후 프로젝트 도구 상자 탭에서 오케스트레이션으로 스키마 요소를 끌어서 엔드포인트 및 연결을 작성합니다.

CDK 스키마 파일은 다음과 같습니다.

**ci-connector-config.xsd** - 이 파일은 Studio 및 개발 엔진에서 사용되어 커넥터에 사용할 수 있는 기본 구성 옵션을 정의합니다. 플러그인 메타데이터는 XML 파일의 요소로 저장되고, 메타데이터가 일단 구성되면 일반 사용자가 볼 수 있는 항목과 노출되는 활동을 엔드포인트 특성에서 정의합니다. 다음은 ci-connector-config.xsd 파일입니다.

```
<xs:schema
id="_dcs_markdown_workspace_Transform_htmlout_0_nl_ko_com.ibm.wci.cdk.doc_cdk_schema_s_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:element>
documentation -->

name="release-documentation"
type="tns:ReleaseDocumentation"
minOccurs="0"
maxOccurs="unbounded" />
        <!--
connector. Do not change
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
activities with

        <!--
namespace. Used to associate
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" />
<!--
consumer as to its
classification
-->
General hint to
<xs:attribute
name="category"
type="tns:ConnectorCategory" />
</xs:complexType>
</xs:element>
<xs:complexType
name="ReleaseDocumentation">
<xs:simpleContent>
<xs:extension
base="xs:string">
plugin connector version -->
<!-- corresponding
<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" />
<!--
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"

```

Used

```

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" />
<!--
there is no
fields. If
-->
Predefined groups. If specified,
need to specify label, groups, or
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>
                    description text -->
                    <!-- summary
                    <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"
                minOccurs="0" />
        </xs:sequence>
        <!-- summary
        <xs:element
            name="short-description"
            type="xs:string"
            </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
    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:sequence>

```

```

                                <xs:element
                                    name="task-list"
                                    type="tns:Tasks" />
                                </xs:sequence>
                                <xs:attribute
                                    name="name"
                                    use="required" />
type="xs:string"
                                <!--
that appears                                this is the label of the activity
-->                                under an activity group
                                <xs:attribute
                                    name="label"
                                    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"
                                    default="browse" />
                                <xs:element
                                    name="applies-to"
                                    type="tns:AppliesTo"
                                    minOccurs="0"
                                </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
                                -->

```

```

name="format"
type="tns:FieldFormat"
minOccurs="0" />
<!--
define if possible values form a collection
(e.g. a range or set of values)
-->
name="field-restriction"
type="tns:FieldRestriction"
minOccurs="0" />
<!--
define if values are restricted to regex
pattern
-->
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.)
-->
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" />
<!--
a configuration property be applied to
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>

```

```

name="field"
type="tns:FieldDescriptor"
minOccurs="0"
maxOccurs="unbounded" />
</xs:element>
<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>
<!-- supported types -->
<xs:simpleType
name="FieldType">
<xs:restriction
base="xs:string">
<xs:enumeration
value="string" />
<xs:enumeration
value="base64" />
<xs:enumeration
value="boolean" />
<xs:enumeration
value="int" />
<xs:enumeration
value="decimal" />
<xs:enumeration
value="date" />
<xs:enumeration
value="dateTime" />

```



```

int, etc) -->
    <xs:enumeration
        value="anyType" />
    <!-- any of the above (e.g. string,
int, etc) -->
    </xs:restriction>
</xs:simpleType>
<!-- cooresponding xsd type -->
<xs:simpleType
    name="SoapType">
    <xs:restriction
        base="xs:string">
    <xs:enumeration
value="xs:base64Binary" />
    <xs:enumeration
        value="xs:boolean"
/>
    <xs:enumeration
        value="xs:decimal"
/>
    <xs:enumeration
        value="xs:int" />
    <xs:enumeration
        value="xs:string" />
    <xs:enumeration
        value="xs:date" />
    <xs:enumeration
        value="xs:dateTime"
/>
    <xs:enumeration
        value="xs:anyType"
/>
    <!--
decimal, int, string,
    can be id, boolean,
    date, dateTime
-->
    </xs:restriction>
</xs:simpleType>
<!-- supported type formats -->
<xs:simpleType
    name="FieldFormat">
    <xs:restriction
        base="xs:string">
    <xs:enumeration
        value="string" />
    <xs:enumeration
        value="password" />
    <xs:enumeration
        value="percent" />
    <xs:enumeration
        value="phone" />
    <!--
value="date"/> date
    <xsd:enumeration
        formats???
-->
    <xs:enumeration
        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>
of values -->
        <!-- value is restricted to a range
            <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">
                <!--
                    parsable for specified
                    FieldType
                -->
                <xs:sequence>
                    min and max must be
                    <xs:element
                        name="min"
                        type="xs:string"
                        minOccurs="0" />
                    <xs:element
                        name="max"
                        type="xs:string"
                        minOccurs="0" />
                    <!--
                        'int' with min=0, max = 4,
                        allowed field values are
                    -->
                    e.g. for FieldType
                    and step=2, the only
                    allowed values are
                    0, 2, and 4
                    <xs:element
                        name="step"
                        type="xs:string"
                        minOccurs="0"
                        default="1" />
                </xs:sequence>
            </xs:complexType>
<!--
        expression
        value is restricted in length or regular
-->
        <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: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_nl_ko_com.ibm.wci.cdk.doc_cdk_schema
s_length"
    type="tns:NumAttrib" />
    <xs:element
    name="min-length"

id="_dcs_markdown_workspace_Transform_htmlout_0_nl_ko_com.ibm.wci.cdk.doc_cdk_schema
s_minLength"
    type="tns:NumAttrib" />
    <xs:element
    name="max-length"

id="_dcs_markdown_workspace_Transform_htmlout_0_nl_ko_com.ibm.wci.cdk.doc_cdk_schema
s_maxLength"
    type="tns:NumAttrib" />
    <xs:element
    name="pattern"

id="_dcs_markdown_workspace_Transform_htmlout_0_nl_ko_com.ibm.wci.cdk.doc_cdk_schema
s_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** - 엔드포인트를 액세스하려면 애플리케이션에서 커넥터 API의 호출을 사용하여 적절한 커넥터와 통신할 수 있어야 합니다. 이 파일은 TestConnection, ListObjects 및 DescribeObject API의 요청/응답 유형에 대해 설명합니다. 다음은 ci-connector-api.xsd 파일입니다.

```
<xs:schema
```

```

id="_dcs_markdown_workspace_Transform_htmlout_0_nl_ko_com.ibm.wci.cdk.doc_cdk_schema
s_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: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:sequence>
            </xs:complexType>
        <xs:complexType
            name="ListObjectsResponse">
                <xs:sequence>
                    <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: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 -->
<xs:attribute
name="name"
type="xs:string" />
<xs:attribute
name="description"
type="xs:string" />
<!-- namespace of derived type -->

```

```

                <xs:attribute
                    name="typeNS"
                    type="xs:string" />
<!-- namespace of base/abstract type -->
                <xs:attribute
                    name="baseTypeNS"
                    type="xs:string" />
<!-- local part name of base/abstract type -->
                <xs:attribute
                    name="baseType"
                    type="xs:string" />
            </xs:complexType>
</xs:schema>

```

상위 주제: [Cast Iron CDK 컴포넌트](#)

## Cast Iron CDK XML 파일

XML 파일은 플러그인에서 수행하는 활동을 정의합니다. XML 파일의 모든 활동은 WSDL 파일에 정의된 조작에 맵핑되어야 합니다.

XML은 프로그래밍 언어, 소프트웨어 플랫폼 및 하드웨어에 독립적인 구조체 데이터를 표시하고 전송하기 위한 유니버설 언어입니다. 개발 프로젝트의 경우 텍스트 편집기 또는 XML 준수 작성 도구를 사용하여 XML 파일을 작성할 수 있습니다. 사용자 파일은 스키마 파일의 규칙을 준수해야 하며 그렇지 않으면 플러그인이 실패합니다.

상위 주제: [Cast Iron CDK 컴포넌트](#)

## Cast Iron CDK WSDL 파일

WSDL 파일은 네트워크 서비스를 엔드포인트 세트로 정의하는 XML 형식 파일입니다. WSDL 파일은 웹 서비스에 액세스하는 방법에 대해 설명하고 서비스가 수행하는 조작을 지정합니다. WSDL은 일반적으로 웹 서비스 제공자에 의해 개발되고 UDDI(Universal Description, Discovery and Integration) 레지스트리를 통해 사용 가능하게 됩니다.

개발 환경에서 클라이언트 웹 서비스 애플리케이션을 빌드하기 위해 필요한 오브젝트를 생성할 수 있도록 프로젝트의 아웃 세트에서 WS-I(Web Service Interoperability) 준수 WSDL 파일을 개발 플랫폼으로 가져와야 합니다. 웹 서비스 API는 오브젝트 또는 WSDL 유형 정의 세트와 웹 서비스 조작 세트를 제공합니다.

상위 주제: [Cast Iron CDK 컴포넌트](#)

## Cast Iron CDK .par 파일

플러그인은 .par 파일로 패키징됩니다. .par은 이름을 바꾸어 Studio로 가져오는 표준 .zip 파일입니다.

.par 파일에는 플러그인이 포함되어 있습니다. 이 파일은 Studio 프로젝트에서 내보내며 식별할 수 있는 인터페이스 조작 및 플러그인에 포함된 인벤토리 오브젝트를 구현합니다. .par이 전달되면 플러그인에 대한 디렉토리로 자동으로 펼칩니다.

상위 주제: [Cast Iron CDK 컴포넌트](#)

## FAQ

다음은 개발 프로세스 중에 발생할 수 있는 문제점을 해결하는 데 도움을 주는 자주 질문되는 내용(FAQ)입니다.

Q. 디자인할 때 내 입력 활동을 찾을 수 있는지 여부를 판별하는 방법은 무엇입니까?



- **A.** 활동에 대한 입력이 오브젝트 유형에 따라 다른 경우 찾을 수 있음을 선택하고 입력에 추상 WDSL 또는 스키마 요소 유형을 사용하십시오.

**Q.** 내 스키마 또는 WSDL에 추상 요소 유형이 없습니다. 추상 요소 유형을 어떻게 내 파일에 추가합니까?

- **A.** WSDL 및 스키마는 특정 요소 또는 유형을 대체하도록 강제하는 메커니즘을 제공합니다. 파일에 추상 요소를 추가하려면 `complexType` 요소 `complexType name="MyObject"`를 WSDL 또는 스키마에 추가하십시오. 동일한 네임스페이스를 사용하여 입력 유형으로 정의하십시오.

**Q.** 기존 커넥터를 수정할 수 있습니까?

- **A.** CDK 커넥터 마법사를 사용하여 커넥터를 빌드한 경우 단순히 마법사를 시작하여 새 활동을 추가하거나 기존 활동을 재개하여 커넥터를 업데이트할 수 있습니다.

**Q.** 기존 프로젝트가 있습니다. 프로젝트의 맨 위에서 마법사를 실행하고 오케스트레이션을 사용하여 커넥터 활동을 노출시킬 수 있습니까?

- **A.** 예. 기존 프로젝트의 맨 위에서 마법사를 실행할 수 있지만 활동 이름이 기존 오케스트레이션 이름과 충돌하지 않도록 확인하십시오.

**Q.** 내 커넥터가 Studio에 표시되지 않습니다. 이유가 무엇입니까?

- **A.** 오류를 확인하는 것만으로 많은 오류가 정정될 수 있습니다. `Studio_Install_dir`에 있는 로그 파일에서 실패를 확인하십시오.

## 도움말 보기

---

이 절에서는 IBM 및 해당 제품에 대한 정보를 얻는 방법 및 개인용 영업 및 기술 지원을 얻는 방법에 대해 설명합니다.

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