

IBM Operational Decision Manager
Version 8 Release 7

Installation Guide



Note

Before using this information and the product it supports, read the information in "Notices" on page 49.

This edition applies to version 8, release 6, modification 0 of Operational Decision Manager and to all subsequent releases and modifications until otherwise indicated in new editions.

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Installing

You install IBM® Operational Decision Manager through Installation Manager. You can also install some components through a launchpad, which makes it easy to perform a typical installation with everything you need to get started quickly with the product. You can also use the silent installation mode to install Operational Decision Manager on multiple workstations in a network.

Before you install, make sure that you have a valid license for the products that you want to install.

Before you install

To improve your installation experience, ensure that you understand the Operational Decision Manager installation concepts and requirements.

Operational Decision Manager licenses

IBM® Operational Decision Manager is composed of several components that provide a variety of features. Depending on the type of license that you have, you can install some or all of the components and their respective features. Ensure that you install only the components for which you have a valid license.

The Operational Decision Manager licenses are either for development purposes or for production purposes. Development licenses can be activated only as part of a development and test environment for internal, nonproduction activities, whereas production licenses are for using the product in production. During installation, you specify how you intend to use the product.

If you have a Decision Server Advanced license and want to install Decision Server Insights, see *Installing Decision Server Insights* for installation instructions and Features you can install specific to this component.

Some components require that you install additional software. If you install by using the launchpad, the required software is installed automatically.

The below table lists the product components that you are entitled to install depending on the license that you have. It also specifies the components that you can install by using the launchpad.

Table 1. License types and corresponding installable components

| License type | Installable components | Installable by using the launchpad |
|--------------------------|---|------------------------------------|
| Decision Server Advanced | Decision Server Rules | Yes |
| | Rules profile templates for WebSphere® Application Server | Yes |
| | Decision Server Events | No |
| | Events profile templates for WebSphere Application Server | No |
| | Business Rules Embedded | No |
| | Decision Server Insights | No |

Table 1. License types and corresponding installable components (continued)

| License type | Installable components | Installable by using the launchpad |
|--------------------------|--|------------------------------------|
| Decision Server Standard | Decision Server Rules | Yes |
| | Business Rules Embedded | No |
| | Rules profile templates for WebSphere Application Server | Yes |
| Decision Server Express | Decision Server Rules | Yes |
| | Business Rules Embedded | No |
| | Rules profile templates for WebSphere Application Server | Yes |
| | Decision Server Express grants you access to limited capabilities. For example, you cannot use Decision Server in a cluster environment. Check the terms of your license for more information. | |
| Decision Center | Decision Center | Yes |
| | Decision Center profile templates for WebSphere Application Server | Yes |
| Decision Center Express | Decision Center | Yes |
| | Decision Center profile templates for WebSphere Application Server | Yes |
| | Decision Center Express grants you access to limited capabilities. For example, you cannot use Decision Center in a cluster environment. Check the terms of your license for more information. | |

Related information:

Installing Decision Server Insights

Software requirements

Before you install Operational Decision Manager, make sure that you have the required software and environments, and sufficient disk space.

You can also use a launchpad to install the required software, including Installation Manager. Otherwise, make sure that the required software is installed before you begin the product installation.

The following table displays the software requirements that are supplied as part of the installer.

For more information about the system and software requirements, see IBM Operational Decision Manager detailed system requirements

Table 2. Software requirements for Operational Decision Manager.

| Software requirements | Description |
|---|--|
| Installation Manager 1.7.3 | <p>Installation Manager is required to install the Operational Decision Manager product packages. Installation Manager 1.7.3 comes with licenses that include the launchpad. The launchpad installs this version of Installation Manager on your computer as part of the installation procedure. If you already have a version of Installation Manager, ensure that you have the minimum version requirement: Installation Manager 1.7.1.</p> <p>If you use Unix you can use the console-based interface of Installation Manager. For more information, see Console Mode.</p> |
| WebSphere Application Server Network Deployment 8.5.5.3 | <p>If you intend to deploy a sample server or a stand-alone server, you must install WebSphere Application Server Network Deployment V8.5.5.3. You use WebSphere Application Server Network Deployment to run the samples and tutorials, to install the Event runtime, and to use the Event widgets.</p> <p>Note: To install WebSphere Application Server Network Deployment on Linux and AIX® systems, you must set the process resource limits in the <code>/etc/security/limits.conf</code> file. If the value for the number of open files is too low, errors can occur when opening files or establishing connections. To change the open file limit, edit the <code>/etc/security/limits.conf</code> file, and add the following values:</p> <pre>hard nofile 100000 soft nofile 100000</pre> |
| WebSphere eXtreme Scale 8.6.0 | <p>WebSphere eXtreme Scale is required only if you intend to install the Event runtime.</p> <p>WebSphere eXtreme Scale is used to install the Event runtime. You must install WebSphere eXtreme Scale in the directory of WebSphere Application Server.</p> |
| Eclipse 4.2.2.2 | <p>When you install by using Installation Manager, you can choose to extend an existing Eclipse environment. If you choose to extend your Eclipse environment, ensure that you have the required version: Eclipse 4.2.2.2</p> <p>Note:</p> <p>You must update the standard version of Eclipse 4.2.2.2. Go to the Known Limitations page to follow the steps that you must take to update your Eclipse environment.</p> |

Related tasks:

“Installing with the launchpad” on page 9

Run the launchpad to install a typical installation of your Operational Decision Manager product components. When you install through the launchpad, you install your product components and all the available installation features. The launchpad also installs the required software.

Related information:

Installing Decision Server Insights

“Installing the product with Installation Manager” on page 12

Use Installation Manager to install Operational Decision Manager. When you install through Installation Manager, ensure that you install only the components for which you have a valid license.

Downloading the product installers

The Operational Decision Manager installation repositories are provided as downloadable compressed files through IBM Passport Advantage®, or on physical DVDs.

Before you begin

You must copy or download the installation repositories onto your workstation. If you download the repositories, you must extract them with an archiving utility of your choice.

Procedure

1. Ensure that your installation repositories are copied to the same directory.
2. Choose the tar file that corresponds to your target operating system.
To avoid any issue with the repository extraction, make sure that the path to the download directory is short. For example: C:\Download or /Download.
3. Extract the repositories:
 - If you use WinZip, clear **TAR file smart CR/LF conversion** in **Option > Configuration > Miscellaneous**.
 - If you are an AIX user, you must use both the native UNIX **tar** command and the GNU version of this command because the native utility does not support long file names.

Results

As a result of the extraction and depending on your licenses, you obtain all or a combination of folders named `disk1`, `disk2`, `disk3`, `disk4` and `disk5`.

- `disk1` contains the installation repositories for WebSphere Application Server and the IBM SDK Java™ Technology Edition for WebSphere. It also contains the launchpad executable files and the predefined response files for a silent installation.
- `disk2` contains the installation repositories for Decision Server Rules, the Rules profile templates for WebSphere Application Server, and Rules embedded. It also contains the launchpad executable files and the predefined response files for a silent installation.
- `disk3` contains the installation repositories for Decision Center and the Decision Center profile templates for WebSphere Application Server. It also contains the launchpad executable files and the predefined response files for a silent installation.

- `disk4` contains the installation repositories for Decision Server Events and the Events profile templates for WebSphere Application Server.
- `disk5` contains the installation repositories for Decision Server Insights, and the predefined response files for a silent installation.

Security

To help you configure applications safely, application servers check access to the resources and manage access rights.

Operational Decision Manager is certified to support Federal Information Processing Standards (FIPS) 140-2 and the National Institute of Standards and Technology (NIST) Special Publications 800-131a security standard.

The FIPS 140-2 standard is an information technology security accreditation program to certify cryptographic modules for use in government departments and regulated industries that collect, store, transfer, share, and disseminate sensitive but unclassified information.

To configure WebSphere Application Server V8.5.5 to run in NIST SP800-131A mode (transition mode or strict mode), go to the following page: [Configuring WebSphere Application Server for SP800-131 standard strict mode](#).

Configuration of a secure mode on an application server provides ways to increase the security of the application that you deploy.

In secure mode, an application server:

- Checks access to the resources: access to a class using the Java reflection mechanism is not permitted without the appropriate security rights.
- Manages access rights: Rule Execution Server Console access is managed with this mechanism.

By default, Rule Execution Server is installed with a minimum of security. The Rule Execution Server Console application defines three specific roles: `resAdministrators`, `resDeployers`, and `resMonitors`. The roles control access to the various JSP/Servlets.

There is no specific permissions implementation for Rule Execution Server MBeans. All that is required to access the MBeans using JMX are the correct credentials.

Java 2 Security provides a policy-based, fine-grain access control mechanism that increases overall system integrity. Java 2 Security is independent of Java EE role-based authorization. Java 2 Security can be disabled and enabled independently of global security. However, on certain application servers when global security is enabled, Java 2 Security is also enabled. Note that Java 2 security can be disabled even though global security is enabled.

Note: Security configuration of Rule Execution Server might relate to your application, domain, or server-scoped security policy in your enterprise. Review security settings for applications that call Rule Execution Server with your Java EE application architect or system administrator as appropriate.

You complete the installation of Decision Center and Rule Execution Server by using an Installation Settings wizard. For Decision Center, the Installation Settings wizard helps you create the correct groups in your application server when you set

up security access. For Rule Execution Server, the Installation Settings wizard helps you create the correct type of database schemas.

Communication protocols

Rule Execution Server support HTTP and the secured HTTPS communication protocol. You can customize the protocol factory.

Communication with Rule Execution Server supports the HTTP or HTTPS communication protocols. Communication with Rule Execution Server can occur from Decision Center or Rule Designer.

You can customize the communication in two ways:

- To support nontrusted certificates in secure mode.
- To support custom protocols.

Secure mode

By default, HTTPS supports only trusted certificates. As a consequence, when you communicate with Rule Execution Server in secure mode, you cannot connect using a demo certificate that is not trusted by the default JVM. Your application server raises an SSL handshake exception if you try to connect using a nontrusted demo certificate. To enable communication to work with nontrusted certificates, add the following Java system property in the start script of the application server:

-Dilog.rules.res.allowSelfSignedCertificate=true

To allow HTTPS on nontrusted self-signed certificates for Ant tasks, set the Java system property `ilog.rules.res.allowSelfSignedCertificate` to `true`, as follows:

```
<property name="ilog.rules.res.allowSelfSignedCertificate" value="true"/>
```

Custom protocols

You can customize the protocol factory for a specific protocol by using the following system properties:

- `custom.protocol.factory`: The fully qualified name of the protocol factory.
- `custom.protocol.scheme`: The protocol name for which the protocol factory is customized.
- `custom.protocol.defaultPort`: The default port used for the protocol if no port is specified in the URL.

You must launch the JVM that initiates the HTTP communication with these system properties and your implementation of the protocol factory class `org.apache.commons.httpclient.protocol.ProtocolSocketFactory` in the class path.

The protocol factory specified in `custom.protocol.factory` is instantiated and registered if both the following conditions are satisfied:

- The HTTP client is instantiated.
- The protocol in the URL used for communication is the same as the value of the property `custom.protocol.scheme`.

You can implement the protocol in one of the following ways:

- Execute an Ant task with the system properties:

```
-Dcustom.protocol.factory=com.ilog.MyProtocolFactory
-Dcustom.protocol.scheme=https -Dcustom.protocol.defaultPort=443
```

- Add the properties to the build.xml file:

```
<property name="custom.protocol.factory" value="com.ilog.MyProtocolFactory"/>
<property name="custom.protocol.scheme" value="https"/>
<property name="custom.protocol.defaultPort" value="443"/>
```

Third-party tools

When you install Operational Decision Manager, you also install some open source third-party software tools.

Open source software

Operational Decision Manager includes a number of third-party open-source libraries and tools to enhance your user experience with the product.

- “Eclipse”
- “Apache Ant”

IBM gratefully acknowledges the work of the Open Source community and the many independent developers that build and support these Open Source packages.

The open source packages are provided to enhance Operational Decision Manager. The packages are not supported by IBM and IBM does not endorse their suitability for production use. For support, refer to the relevant user community through the Home Page for each package.

Eclipse

Optionally, you can install Eclipse if you do not already have a version of this IDE installed.

The standard Operational Decision Manager installer provides Eclipse as an optional environment for the convenience of users. Eclipse is required for successful application development with Operational Decision Manager, but users can choose to install Operational Decision Manager onto an existing, version compatible, Eclipse installation. You do not have to incorporate Eclipse into applications that you develop using Operational Decision Manager. However, certain features might require that specific Eclipse libraries be included in the final application.

Apache Ant

Apache Ant is installed to provide a preconfigured build and deployment scripts.

Version 1.7.1 of Ant, the Java-based build tool, is provided in the `<InstallDir>/shared/tools/ant` directory.

For more information about Ant, see <http://ant.apache.org>.

Ant is installed as part of the Operational Decision Manager installation. It provides a preconfigured build and deployment scripts. These scripts are integral to development of applications that incorporate Operational Decision Manager and can be useful as an element of the final application. However, they are not mandatory elements of Operational Decision Manager applications. In Operational Decision Manager powered applications, all product features are fully functional even if Ant has not been incorporated into the final application.

Installing Operational Decision Manager

Install Operational Decision Manager through one of the following installation methods. Depending on your installation needs, you can install the product through the launchpad or through Installation Manager. You can also perform a silent installation to deploy Operational Decision Manager on multiple workstations in a network.

Installing the product with the launchpad

Some of the Operational Decision Manager components come with a launchpad. Use the launchpad to run a typical installation and get everything that you need to get up and running with these components. Ensure that you install only the components for which you have a valid license.

When you install through the launchpad, you install all of the component features, the default environments, and the software requirements for the components that you select. For example, the launchpad installs Installation Manager and the appropriate profile templates for WebSphere Application Server, the default application server for Operational Decision Manager.

After you install, the sample server does not require any configuration. The profile is created the first time that you start the sample server.

Related tasks:

“Installing with the launchpad” on page 9

Run the launchpad to install a typical installation of your Operational Decision Manager product components. When you install through the launchpad, you install your product components and all the available installation features. The launchpad also installs the required software.

“Uninstalling Operational Decision Manager” on page 39

Use Installation Manager to uninstall components or the entire Operational Decision Manager product.

Related information:

“Installing the product with Installation Manager” on page 12

Use Installation Manager to install Operational Decision Manager. When you install through Installation Manager, ensure that you install only the components for which you have a valid license.

Starting the launchpad

Double-click one of the launchpad executable files, either `launchpad.exe` or `launchpad64.exe`.

Before you begin

Save and extract the installation files on your workstation.

Review your user privileges carefully. If you decide to change the default installation directory for Windows 7, ensure that you are aware of the user privilege¹ limitations for directories under Program Files and Program Files (x86). Your user privileges depend on your installation of Installation Manager, and you must install the product with the same user privileges.

Important:

1. "User privileges" refer to the administrator and nonadministrator installation options.

On Windows 7, the Program Files and Program Files (x86) directories are protected. As a consequence, if you do not install the product as an administrator, you might encounter difficulties to run certain programs. To avoid this issue, install the product in a directory other than Program Files and Program Files (x86).

You must have a web browser to run the launchpad. The launchpad supports Firefox and Internet Explorer.

About this task

Start the launchpad from any of the installation disks.

On Windows, if you want to install the product as an administrator, the user privileges that are required for installing it depend on your version of Windows.

- On Windows 7: You must log in with an account that has administrator privileges to install or update IBM Installation Manager and the other products. Run the installer as Administrator by right-clicking the program file or shortcut and selecting **Run as Administrator**.

If you want to install the Operational Decision Manager components with an existing version of Installation Manager that you have on your workstation, make sure that the **User Account Control** setting in the **Control Panel** is not set at the lowest value. If this value is set to the minimum, the launchpad automatically opens in administrator mode and installs a new version of Installation Manager in addition to your existing version of Installation Manager.

- On other supported Windows versions: If you want to install as an administrator, you must have a user ID that belongs to the Administrator group.

Procedure

To start the launchpad, double-click the launchpad executable file:

- On Windows, start `launchpad.exe`, or `launchpad64.exe`. The executable file determines whether the launchpad is run in 32-bit or 64-bit mode. It does not determine whether you install a 32-bit or a 64-bit Operational Decision Manager installation.

To install the product as an administrator on Windows 7, right-click the executable file and select **Run as Administrator**

- On Linux, start `./launchpad.sh`.

What to do next

The launchpad guides you through the installation process. Select the components and options that correspond to your installation needs.

Related information:

“Installing with the launchpad”

Run the launchpad to install a typical installation of your Operational Decision Manager product components. When you install through the launchpad, you install your product components and all the available installation features. The launchpad also installs the required software.

Installing with the launchpad

Run the launchpad to install a typical installation of your Operational Decision Manager product components. When you install through the launchpad, you

install your product components and all the available installation features. The launchpad also installs the required software.

Before you begin

Review your license and install only the components for which you have a valid license.

About this task

The launchpad guides you through the installation. When you start the launchpad, you must first select from the components under Decision Server and Decision Center.

Through the launchpad, you can also select your configuration options.

Procedure

To install IBM Operational Decision Manager through the launchpad:

1. Start the launchpad.
2. On the Welcome page, select your product licenses under Decision Server and Decision Center. Click **Next** to continue your installation.
3. Select your installation options.
 - a. Are you installing for production purposes? After you install, is your product used to serve users and clients? If so, select **Yes**. If not, select **No**.
 - b. The default application server is WebSphere Application Server. If you want to install artifacts for other application servers, select **JBoss**, **Tomcat**, **Oracle WebLogic** or **WebSphere Liberty Profile**.
 - c. If you want to install the tutorials and samples, select **Yes**.

Select **Next**.

4. Under Installation Information, specify a directory in which to install your product.
 - a. In Windows 7, if you run the launchpad in user mode, the default installation directory is C:\Users\IBM_ADMIN\IBM\ODM87
 - b. In Windows 7, if you run the launchpad as an administrator, the default installation directory is C:\Program Files\IBM\ODM87
 - c. To specify a location other than the default location, click **Browse**. Note, however, that on Windows 7, the Program Files and Program Files (x86) directories are protected. Install the product in a directory other than Program Files or Program Files (x86) to avoid any user privilege difficulties.
5. Specify a user name and password. You use the user name and password to sign in to Decision Center, the WebSphere Application Server administration console, and use other applications. Enter a user name and password that do not have spaces. The following is an example of an acceptable user name and password:
 - **User Name:** ODMAdmin
 - **Password:** ODMAdmin

Important:

For security reasons, you must change your password and remove the temporary response files that are created by the launchpad after the installation is complete. These files are generated during the installation process in these directories:

- On Windows: %TEMP%\IBM_LaunchPad_Typical_Install_<hash_key>
- On UNIX: /tmp/IBM_LaunchPad_Typical_Install<hash_key>

6. Click **Next**.

7. Review the license agreement and installation summary, and select the check box to agree to the terms. If you do not select the check box, you cannot continue with the installation.

8. Click **Install Software**. The installation begins.

During the installation, the installer prompts you to confirm that you want to run the Installation Manager and other installation programs, click **Yes** to accept.

The installation runs in the background. Do not close the launchpad even if the progress bar shows 100% completion. Wait until the following message is displayed: Installation completed successfully.

If you cancel the installation before its completion, the files and folders that are already copied onto your computer are not deleted. You must uninstall the products that the launchpad already installed with the Installation Manager, and manually delete the remaining files before you run the launchpad again. For more information, see “Uninstalling Operational Decision Manager” on page 39.

9. Click **Next** to exit the launchpad.

Results

When the installation is complete, your product components are installed on your workstation.

By default, they are installed in the following directories:

- Operational Decision Manager: <IBM_InstallDir>/ODM87/ODM, where <IBM_InstallDir> refers to your IBM installation directory.
- WebSphere Application Server: <IBM_InstallDir>/ODM87/WAS/AppServer, where <IBM_InstallDir> refers to your IBM installation directory.

What to do next

Start the sample server with the **Start** menu shortcut. A profile is configured on WebSphere Application Server Network Deployment to run the included samples and tutorials.

Related concepts:

“Post-installation configuration” on page 48

After you install and check your installation, consult the configuration topics for information about setting up your product. Depending on the installation option that you select, you might have some configuration work to do.

“Installing the product with the launchpad” on page 8

Some of the Operational Decision Manager components come with a launchpad. Use the launchpad to run a typical installation and get everything that you need to get up and running with these components. Ensure that you install only the components for which you have a valid license.

“Software requirements” on page 2

Before you install Operational Decision Manager, make sure that you have the required software and environments, and sufficient disk space.

Related information:

“Installing the product with Installation Manager”

Use Installation Manager to install Operational Decision Manager. When you install through Installation Manager, ensure that you install only the components for which you have a valid license.

Installing the product with Installation Manager

Use Installation Manager to install Operational Decision Manager. When you install through Installation Manager, ensure that you install only the components for which you have a valid license.

You must have an existing Installation Manager to install Operational Decision Manager through Installation Manager. You must also ensure that you have the required software.

When you install through Installation Manager, you select your Operational Decision Manager components, features, and environments. Contrary to the launchpad, you can select more finely the features that you want to install.

To install the Operational Decision Manager components, Installation Manager must access the repositories for the components that you want to install. Edit the preferences in Installation Manager to set the path to these repositories.

Related concepts:

“Installing the product with the launchpad” on page 8

Some of the Operational Decision Manager components come with a launchpad. Use the launchpad to run a typical installation and get everything that you need to get up and running with these components. Ensure that you install only the components for which you have a valid license.

“Software requirements” on page 2

Before you install Operational Decision Manager, make sure that you have the required software and environments, and sufficient disk space.

“Upgrading from an Express license to a full license” on page 39

You might want to upgrade from a Decision Center Express[®] to a Decision Center license or from a Decision Server Express to a Decision Server Standard or Advanced license to benefit from the full range of capabilities that the product offers.

Related tasks:

“Installing with the launchpad” on page 9

Run the launchpad to install a typical installation of your Operational Decision Manager product components. When you install through the launchpad, you install your product components and all the available installation features. The launchpad also installs the required software.

“Uninstalling Operational Decision Manager” on page 39

Use Installation Manager to uninstall components or the entire Operational Decision Manager product.

Installation Manager overview

Install and maintain your IBM products with IBM Installation Manager.

Use the basic Installation Manager features:

- Select a language pack within the installer.
- Update an existing product package.
- Modify an existing product package.
- Roll back a product package.
- Uninstall a product package.

When you use Installation Manager, select your user privileges carefully. You must also be aware of a few concepts, such as package groups, the shared directory, and the Eclipse languages.

User Privileges:

You can use IBM Installation Manager in administrative mode (root), nonadministrative user mode (nonroot), or group mode. The mode determines the directories and commands that you use for both Installation Manager and the product package. You must be aware of this choice because the way you install Installation Manager affects how you can install and configure the product.

You must log in with an account that has administrator privileges to install or update Installation Manager and the other products. Run the installer as an administrator by right-clicking the program file or shortcut and selecting **Run as Administrator**.

The `install.exe` and `userinst.exe` commands install Installation Manager into different directories. Changes that you make to the administrator installation of Installation Manager do not affect the nonadministrator installation. Similarly, changes that you make to the nonadministrator installation of Installation Manager do not affect the administrator installation. Each instance of Installation Manager must have its own installation directory and agent data location.

For more information on Installation Manager, see Group road maps and the user interface and Install as an administrator, nonadministrator, or group in the Installation Manager documentation.

Administrator mode

Use administrator mode when you have administrative privileges in Windows and root privileges in Linux. You can administer and manage Installation Manager and packages. You can install packages in a common location that is accessible by all users on a system.

If you want the administrator user (root) to install products on a computer, run the `install` executable file that is in the Installation Manager directory.

Nonadministrator mode

Use nonadministrator mode to install packages in a location that is accessible only by the user who installs Installation Manager. In this mode, you cannot install packages that require administrator access rights. The packages are installed with nonadministrator rights. You can install only one instance of Installation Manager for each user on a workstation.

If you want a specific user to install products on a computer, run the `userinst` executable file that is in the Installation Manager directory.

Group mode

Use group mode to enable a group of users to share packages in a common location and manage the packages with the same instance of Installation Manager. Group mode is not supported on Windows.

If you want a group of users to install products on a computer, run the `groupinst` executable file. If you install Installation Manager using the group mode, you can install Installation Manager by using one account and offerings by using another account that is in the same group.

For more information, see Installation commands in the Installation Manager documentation.

Package groups and the shared directory:

Installation Manager always installs the product in a package group, which is used to group multiple packages into one manageable location.

Installation Manager specifies a default “Package group” and a “Shared resources directory.”

Package group

A package group is a directory where compatible packages share common components such as a user interface or workbench.

You can create a package group or install the packages into an existing compatible package group. Some packages cannot share a package group, in which case the option to use an existing package group is disabled.

You might want to install the product in an existing package group if you installed supported versions of compatible products such as IBM Integration Designer or Rational® Application Developer, or Rational Software Architect, and you want to extend it with Rule Designer, Event Designer and Insight Designer features.

When you install several packages at the same time, all the packages are installed into the same package group. After you create the package group, you cannot change the installation directory. The installation directory contains files and resources that are specific to the product.

Shared resources directory

The shared resources directory is where Eclipse plug-ins and other files are located so that they can be used by one or more product package groups. You can specify the shared resources directory only the first time that you install a package. The name of the shared resources directory depends on the first product that you have installed.

You cannot change the directory location until you uninstall all packages.

Important: Installation Manager manages the contents of the shared resources directory. You must not edit or modify any files in this directory.

Related tasks:

“Installing Operational Decision Manager in a compatible IBM product” on page 18

You can install Operational Decision Manager in a compatible IBM product package group to share functions and a common user interface.

Languages:

During the installation, you can select the languages to install. English is selected by default and it is always installed.

Language selection applies only to Eclipse features. A language pack is installed for each language that you select so that you can start Eclipse in the locale for these languages.

If you are extending an existing Eclipse, you must select the languages for which you already have the language packs installed. If you select a language that is not already installed in your existing Eclipse, you might get an error. To solve this issue, clear the languages that are not installed in your Eclipse.

The Rule Designer user interface is installed with all the supported locales. Therefore, even if you do not install a certain locale, for example French, the Rule Designer views and editors in Eclipse are still shown in this language (French) if you start Eclipse in this locale.

Setting up Installation Manager repositories

Before you install through Installation Manager, you must add the installation repositories to the Installation Manager preferences.

Procedure

1. Start Installation Manager from the Windows **Start** menu or from a command line.
2. Choose **File > Preferences** and specify the path to the installation repository location.

For example, if you want to install Decision Server Rules, point to the installation repository that contains this component: `<installRepository>/DecisionServerRules`.

Installation Manager retrieves the product packages from the specified repository locations.

For more information on how to set repository locations, see Repository preferences.

What to do next

After you point to the installation directories, you can start the Installation Manager installation and select your installation repositories.

Running Installation Manager

Start Installation Manager to install one or more Operational Decision Manager components on your workstation. You must have an existing Installation Manager and the required software to install through the Installation Manager.

Before you begin

Install Installation Manager 1.7.3 and the required software to install Operational Decision Manager through Installation Manager.

Specify the repository locations in the Installation Manager preferences.

About this task

When you install Operational Decision Manager through Installation Manager, you select the product packages for which you have a valid license. Then, you can select the features that you want to install.

Follow the Installation Manager panels to select the options that correspond to your installation needs:

- Select your product packages
- Review the license agreements
- Select a package group and installation directory
- Select languages
- Select features
- Locate your instance of WebSphere Application Server
- Enter a user name and password
- Identify your installation needs: production or nonproduction
- Select your licenses

Procedure

Install Operational Decision Manager with Installation Manager:

1. From the Installation Manager welcome page, select **Install**.
2. Select the installation packages that correspond to your installation needs and license entitlements. Then, click **Next**.

If your application server is WebSphere Application Server, ensure that you select the profile templates that correspond to the Operational Decision Manager component you are installing. For example, if you select Decision Center, make sure that you also select the Decision Center profile templates for WebSphere Application Server.

You can install one or all of the packages on the same workstation.

3. Review the license agreements for the selected packages. If you agree, select **I accept the terms of the license agreements**, and then click **Next**. If you select **I do not accept the terms in the license agreements**, you cannot continue with the installation.
4. Select a package group:
 - a. Select **Create a new package group** to create a new package group for Operational Decision Manager.

The default package group is ODM87 and its name is IBM Operational Decision Manager.

Important:

On Windows 7, you can change the default installation directory to a location outside of Program Files and Program Files (x86) to avoid user privilege conflicts.

The Program Files and Program Files (x86) directories are protected. You must install Operational Decision Manager with the same user privileges that you use to install Installation Manager to run your programs correctly. For example, if you want to install under Program Files, you might have

to install as an administrator. To avoid issues, install the product in a directory outside the Program Files or Program Files (x86).

- b. Click **Next** to continue.
5. Option: If you want to extend your packages to an existing version of Eclipse, click **Extend an existing Eclipse**, and then click **Browse** to locate your `eclipse.exe` file.
6. Select the languages to install for this package, and then click **Next**.
7. Select the product features that you want to install, and then click **Next**.
A set of features is already selected by default.
8. Select **Application Server Location**, and browse to your installation of WebSphere Application Server where you want to deploy the applications, and then click **Next**. For example `<IBM_InstallDir>/WebSphere/AppServer`.
By default, Operational Decision Manager supports JDK7. If you have an existing WebSphere Application Server that runs JDK6, you must upgrade your JDK version by using the installation option IBM WebSphere SDK Java Technology Edition version 7.0.4.1.
9. Select **Server Security**, and enter a user ID and password for the sample server profile on WebSphere Application Server, and then click **Next**. Your user ID and password must not contain any white spaces. For example:
 - User ID: `odmadmin`
 - Password: `odmadmin`You use the user ID and password to connect to the WebSphere Application Server administrative console, the Event Widgets and the Events Administration console.
10. Select the configuration that you require on the Licenses panel. If you intend to use your installation to serve end-users and clients, select **Yes**. If not, select **No**.
11. On the Summary page, review the selected features before you install the packages, and then click **Install**.
12. Wait until the installation is complete, and then click **Finish**.

Results

The product is installed in the directory that you specify when you install. The default installation directory is `<IBM_InstallDir>/ODM87`, where `<IBM_InstallDir>` refers to your IBM installation directory.

The products and features that are installed depend on what you selected in Installation Manager.

What to do next

To find out what your next steps are and how to get started with your installation, see “Post-installation configuration” on page 48.

Related concepts:

“Troubleshooting the installation” on page 46

If you encounter difficulties installing the products, you can check the installation logs or the limitations and known issues technote.

Related information:

“Installing the product in an existing Eclipse environment” on page 19
Installation Manager installs by default a new instance of Eclipse. However, if you already have a supported version of Eclipse, you can choose to extend your existing Eclipse.

“Checking your installation” on page 32

You can verify the content of the installation directory and use shortcuts to access product components and information.

Languages

During the installation, you can select the languages to install. English is selected by default and it is always installed.

“Features you can install” on page 23

In Installation Manager, you can select the features that you want to install within each Operational Decision Manager component.

Package groups and the shared directory

Installation Manager always installs the product in a package group, which is used to group multiple packages into one manageable location.

Installing Operational Decision Manager in a compatible IBM product

You can install Operational Decision Manager in a compatible IBM product package group to share functions and a common user interface.

About this task

You can install Operational Decision Manager in the package groups of one of the following products:

- IBM Eclipse SDK
- Rational Application Developer
- Rational Developer for z (RDz)
- Rational Software Architect

Before you start the installation, make sure that the repository locations of these products are not selected in the preferences of Installation Manager.

Go to the following support page to check the supported versions:

- IBM Operational Decision Manager detailed system requirements

Procedure

1. When prompted to select a package group in Installation Manager, select **Use the existing package group**.

Installation Manager displays the list of package groups available. The package groups that are not compatible are disabled.

2. Select the destination package group.

The installation directory is automatically filled with the path to the selected product.

3. Continue the installation.

Related concepts:

“Package groups and the shared directory” on page 14

Installation Manager always installs the product in a package group, which is used to group multiple packages into one manageable location.

Installing the product in an existing Eclipse environment

Installation Manager installs by default a new instance of Eclipse. However, if you already have a supported version of Eclipse, you can choose to extend your existing Eclipse.

Installing the required plug-ins and patch level:

Before you install the product in an existing Eclipse environment, make sure that it contains the required plug-ins, and that the current patch level is installed.

Before you begin

Rule Designer requires Eclipse SDK 4.2.2. Be sure to install the appropriate patch level. For more information about obtaining the right patch level, see Operational Decision Manager V8.7 Known Limitations. Follow the procedure that is documented on the known limitations page.

Procedure

1. Install and extract the correct patch.
2. Select **Eclipse > Help > Install new software**.
3. Enter a name in the Name field and click **OK**.
4. Clear the **Group items by category**. The six software features display.
5. Click **Next** twice.
6. Accept the terms of the license agreement.
7. When the installation is complete, select **Yes** to restart.

Results

You can now extend your Operational Decision Manager components in Eclipse.

Extending an existing Eclipse environment:

If the required plug-ins are installed, you can extend your current Eclipse environment.

Before you begin

The Eclipse instance to extend must contain an initialization (.ini) file. If there is no such file, you must create one in the same folder as your Eclipse .exe file. The .ini file must have the same name as the Eclipse executable file. For example, eclipse.exe and eclipse.ini.

About this task

The package files are installed in the package group directory that you select, but the package functions are available in your Eclipse.

Procedure

1. In Installation Manager, when you are prompted to define your Eclipse, select the check box **Extend an existing Eclipse**.
2. Browse to your compatible Eclipse IDE installation.
3. Continue the installation.

Installing Rule Designer in an existing Eclipse:

After installing the product, and if you have not done so at installation time, you can extend an existing Eclipse with Rule Designer. You can also change the JVM that Rule Designer uses.

Extending Eclipse with the Rule Designer update sites:

You can use update sites to install Rule Designer on an existing Eclipse environment after installing the product.

Before you begin

To install Rule Designer in an existing Eclipse installation, you must make sure that you have the required plug-ins.

The ZIP files for the update sites are available if you have selected the corresponding option in Installation Manager.

About this task

During the installation of Operational Decision Manager in Installation Manager, you can extend an existing Eclipse. However, if you have not done so at installation time, you can use the update sites provided in the distribution to extend your Eclipse environment. The installation process is to add the Rule Designer plug-ins from an installation of Operational Decision Manager into your Eclipse.

Note:

If you install Rule Designer in an Eclipse environment that uses a non-English locale:

- The Eclipse messages remain in that language.
- If Rule Designer provides the verbalizer for the language, you can create rule artifacts in this language. If there is no verbalizer for this language, the rule artifacts that you create are in English.
- Rule Designer messages appear in the non-English locale if it is supported, otherwise they appear in English.
- To change the locale, so that everything is in English, add the `osgi.nl=en_US` property to the `<Eclipse_InstallDir>/configuration/config.ini` file, and then restart Rule Designer.

Procedure

1. In the `configuration/config.ini` file of your Eclipse installation, add the `IBM_DS_HOME` property to define the variable to the Decision Server installation directory.

The installation directory contains the components for Decision Server such as `executionserver` and `studio`.

For example, `IBM_DS_HOME=C:/Program Files/IBM/ODM87` or `C:/Program Files/IBM/ODM87/ODM` depending on your installation.

You can copy this property from the `configuration/config.ini` file provided with the installation of Decision Server.

2. Start Eclipse or a supported IBM Eclipse-based product.
3. Switch to the **Java** perspective (click **Window** > **Open Perspective** > **Java**).

4. Click **Help > Install New Software**.
5. Add the sites to install:
 - a. In the Install wizard, next to the **Work with** field, click **Add**.
 - b. In the Add Repository dialog, click **Archive**.
 - c. Browse to the `<InstallDir>/studio/update-sites` directory, click **Open**, and select `designer-base-update-site.zip`.
InstallDir refers to your installation directory.
 - d. In the **Name** field, enter a name for the site, and then click **OK**.
This might take a few seconds.
 - e. Proceed the same way to add the `rule-designer-update-site.zip` update site.
6. In the **Work with** field, select **All Available Sites** from the list.
7. Expand the **Business rules and events** category, and select **IBM Decision Server Designer Base** and **IBM Decision Server Rule Designer**.
8. Click **Next**.
Eclipse calculates the dependencies and requirements.
9. In the Install dialog, click **Next**, select **I accept the terms of the license agreement**, and click **Finish**.
The installation may take a few seconds to complete. If a security warning about the validity of the software opens, click **OK** to proceed with the installation.
10. Click **Restart Now** if you are prompted to restart Eclipse.

What to do next

You can also install the following update sites the same way. These update sites are optional:

- IBM Decision Server Rule Designer Samples:
 - `rule-designer-samples-update-site.zip`
- IBM Decision Server Scorecard Modeler:
 - `scorecard-update-site.zip`
- IBM Decision Server COBOL management update sites:
 - `cobol-importer-license-update-site.zip`
 - `cobol-importer-update-site.linux.zip` (for installation on Linux)
 - `cobol-importer-update-site.win32.zip` (for installation on Windows)
 - `cobol-update-site.zip`

Tip:

You can check what you have installed by clicking **Help > Install New Software**, and then clicking the **What is already installed?** link.

Changing the JVM used by Rule Designer:

You can change the JVM used by Rule Designer.

About this task

On Windows, by default the Operational Decision Manager installer installs the IBM Java Virtual Machine (JVM) with Rule Designer. However, you can select a different JVM during or after installation. On UNIX, you must select a JVM during installation.

You can change the JVM used by Rule Designer on an existing installation of Operational Decision Manager. The Rule Designer shortcut runs Eclipse using the JVM specified in the <Eclipse_InstallDir>\eclipse.ini file.

Note:

- You can also use the `-vm` and `-vmargs` in the command line of the `eclipse.exe` file.
- To run on Sun Hotspot Virtual Machines, Rule Designer needs a PermGen size of at least 128 MB. Use the `--launcher.XXMaxPermSize` parameter. For more information, see The Eclipse runtime options.

For more information on how to set the parameters in the `eclipse.ini` file, see `Eclipse.ini`.

Procedure

1. Change JVM in the <Eclipse_InstallDir>\eclipse.ini file.
2. Save the changes.

Installing Event Designer in an existing Eclipse:

After installing the product, and if you have not done so at installation time, you can extend an existing Eclipse with Event Designer.

Extending Eclipse with the Event Designer update sites:

You can use an update site to install Event Designer on an existing Eclipse environment after installing the product.

Before you begin

To install Event Designer in an existing Eclipse installation, you must make sure that you have the required plug-ins.

The ZIP file for the update site is available if you have elected to install Event Designer from the IBM Installation Manager options when installing the product.

About this task

During the installation of Operational Decision Manager in Installation Manager, you can extend an existing Eclipse. However, if you have not done so at installation time, you can use the update sites provided in the distribution to extend your Eclipse environment. The installation process is to add the Event Designer plug-in from an installation of Operational Decision Manager into your Eclipse.

If you install Event Designer in an Eclipse environment that uses a non-English locale:

- The Eclipse messages remain in that language.

- Event Designer messages appear in the non-English locale if it is supported, otherwise they appear in English.
- To change the locale, so that everything is in English, add the `osgi.nl=en_US` property to the `<Eclipse_InstallDir>/configuration/config.ini` file, and then restart Event Designer.

Procedure

1. Start Eclipse or a supported IBM Eclipse-based product.
2. Switch to the **Java** perspective (click **Window > Open Perspective > Java**).
3. Click **Help > Install New Software**.
4. Add the site to install:
 - a. In the Install wizard, next to the **Work with** field, click **Add**.
 - b. In the Add Repository dialog, click **Archive**.
 - c. Browse to the `<InstallDir>/studio/update-sites` directory, click **Open**, and select `event-designer-update-site.zip`.
InstallDir refers to your installation directory, for example:
C:\IBM\ODM87\ODM
 - d. In the **Name** field, enter a name for the site, and then click **OK**.
There might be a pause for a few seconds after clicking OK.
5. In the **Work with** field, select the name of the site, which you provided in the previous step, from the list.
6. Expand the **Business rules and events** category, and select **IBM Decision Server Event Designer**.
7. Click **Next**.
Eclipse calculates the dependencies and requirements.
8. In the Install dialog, click **Next**, select **I accept the terms of the license agreement**, and click **Finish**.
The installation may take a few seconds to complete. If a security warning about the validity of the software opens, click **OK** to proceed with the installation.
9. Click **Restart Now** if you are prompted to restart Eclipse.

What to do next

You can also install the following update sites the same way. These update sites are optional:

Tip:

You can check what you have installed by clicking **Help > Install New Software**, and then clicking the **What is already installed?** link.

Features you can install

In Installation Manager, you can select the features that you want to install within each Operational Decision Manager component.

A default set of features is preselected but you can add or remove features depending on your needs. For a detailed description of the installable components and features, see the following sections:

- “Decision Center features” on page 24
- “Decision Server features” on page 25

- “Profile templates for WebSphere Application Server” on page 29
- “Business Rules Embedded” on page 29

Installation Manager automatically enforces any dependencies between features and prevents you from clearing these dependencies.

After you finish installing the packages, you can add or remove features from your product with the **Modify Packages** wizard in Installation Manager.

Decision Center features

The following table describes the features available for selection in the IBM Decision Center component.

Table 3. Decision Center features

| Feature | Description |
|--|---|
| Decision Center | <p>An environment for business users to author, manage, and test their business and event rules. It includes a repository for storing business and event rules, and web interfaces (Decision Center Business Console and Decision Center Enterprise Console) for business users to manage decisions.</p> <p>By default, Decision Center is installed on the sample server profile on WebSphere Application Server. After you complete the installation of the product, you can also configure and deploy Decision Center on a different WebSphere Application Server profile, or install it on other supported application servers. However, the Decision Center Business Console is supported on WebSphere Application Server V8.5.5 only.</p> |
| Decision Center: Installation artifacts for other application servers > Decision Center for Tomcat | <p>Provides the archives to deploy and configure Decision Center on Tomcat. The archives are copied to <code><InstallDir>/teamserver/applicationserver/tomcat</code>.</p> <p>For more information, see Configuring.</p> |
| Decision Center: Installation artifacts for other application servers > Decision Center for JBoss | <p>Provides the archives to deploy and configure Decision Center on JBoss. The archives are copied to <code><InstallDir>/teamserver/applicationserver/JBoss</code>.</p> <p>For more information, see Configuring.</p> |
| Decision Center: Installation artifacts for other application servers > Decision Center for WebLogic Server | <p>Provides the archives to deploy and configure Decision Center on WebLogic Server. The archives are copied to <code><InstallDir>/teamserver/applicationserver/WebLogic</code>.</p> <p>For more information, see Configuring.</p> |

Table 3. Decision Center features (continued)

| Feature | Description |
|--|---|
| Decision Center: Installation artifacts for other application servers > Decision Center for Liberty profile | Provides the archives to deploy and configure Rule Execution Server on Liberty Profile. The archives are copied to <InstallDir>/teamserver/applicationsservers/WLP855. For more information, see Configuring. |
| Rule Solutions for Office (for Windows only) | Rule Solutions for Office provides a way for business users to create and edit business rules in Microsoft Word or Excel. This option copies the installer for Rule Solutions for Office to your installation directory. The executable file for the installer is copied to <InstallDir>/Rule Solutions for Office/RuleSolutionsForOffice.exe, see "Installing Rule Solutions for Office" on page 29 |
| Samples and Tutorials | Installs the projects for the samples and tutorials, and provides the sample server profile to run the samples and tutorials on WebSphere Application Server. WebSphere Application Server is a prerequisite for this option. |
| Local help system | The local help system option is selected by default. Eclipse users who want to access the local help through the F1 key must install the product documentation locally. For more information, see Installing and accessing the documentation locally. Important: The local help system does not work on 64-bit platforms, such as Red Hat Enterprise Linux (RHEL) that do not have a 32-bit compatibility library installed. |

Decision Server features

The following table shows the features in the IBM Decision Server package.

Table 4. Components shared between Decision Server Rules and Decision Server Events.

| Shared components | Description |
|------------------------------|--|
| Samples and Tutorials | Installs the projects for the samples and tutorials, and provides the sample server profile to run the samples and tutorials on WebSphere Application Server. WebSphere Application Server is a prerequisite for this option. |

Table 4. Components shared between Decision Server Rules and Decision Server Events. (continued)

| Shared components | Description |
|---|---|
| Update sites for installation into other Eclipse products | <p>Provides compressed files that contain the Eclipse update sites (and a copy of the Designer plug-ins) to install Rule Designer and Event Designer features into an existing Eclipse. This feature provides an alternative way of installing the Designer plug-ins into a supported Eclipse after the installation of Operational Decision Manager.</p> <p>For more information, see Extending Eclipse with the Rule Designer update sites.</p> |
| Local help system | <p>The local help system option is selected by default. Eclipse users who want to access the local help through the F1 key must install the product documentation locally.</p> <p>For more information, see Installing and accessing the documentation locally.</p> <p>Important: The local help system does not work on 64-bit platforms, such as Red Hat Enterprise Linux (RHEL) that do not have a 32-bit compatibility library installed.</p> |

Table 5. Decision Server Rules

| Decision Server Rules Features | Description |
|-----------------------------------|--|
| Rule Designer | <p>Rule Designer is a development environment within Eclipse to design business rule applications. It is aimed at developers, business analysts, and architects. The Rule Designer views and editors are available from the Rule perspective in Eclipse.</p> |
| Rule Designer > Scorecard Modeler | <p>Scorecard Modeler is a set of extra plug-ins that are integrated into Rule Designer. You can use Scorecard Modeler to create scorecards, integrate them into your business rules, and share them across multiple platforms.</p> <p>Important: Scorecard Modeler is not installed by default using the launchpad. Use Installation Manager instead, to select the feature and install it.</p> |

Table 5. Decision Server Rules (continued)

| Decision Server Rules Features | Description |
|---|---|
| <p>Rule Execution Server</p> | <p>Rule Execution Server is an execution platform for business rules that embeds the rule engine. It also provides a console to manage and monitor the execution of business rules.</p> <p>By default, Rule Execution Server is installed on the sample server profile on WebSphere Application Server. After you complete the installation of the product, you can also configure and deploy Rule Execution Server on a different WebSphere Application Server profile, or install it on other supported application servers.</p> <p>Select your intended use in accordance with your license type:</p> <p>Non-production license Select this option if you want to use the product for development purposes.</p> <p>This license can be deployed only as part of development and test environment for internal non-production activities.</p> <p>Production license Select this option if you want to use the product for production.</p> |
| <p>Rule Execution Server: Installation artifacts for other application servers > Rule Execution Server for Tomcat</p> | <p>Provides the archives to deploy and configure Rule Execution Server on Tomcat. The archives are copied to <code><InstallDir>/executionserver/applicationservers/tomcat</code>.</p> <p>For more information on how to use the archives to deploy and configure Rule Execution Server, see <i>Configuring Rule Execution Server</i>.</p> |
| <p>Rule Execution Server: Installation artifacts for other application servers > Rule Execution Server for JBoss</p> | <p>Provides the archives to deploy and configure Rule Execution Server on JBoss. The archives are copied to <code><InstallDir>/executionserver/applicationservers/JBoss</code>.</p> <p>For more information on how to use the archives to deploy and configure Rule Execution Server, see <i>Configuring Rule Execution Server</i>.</p> |

Table 5. Decision Server Rules (continued)

| Decision Server Rules Features | Description |
|--|---|
| Rule Execution Server: Installation artifacts for other application servers > Rule Execution Server for WebLogic Server | <p>Provides the archives to deploy and configure Rule Execution Server on WebLogic Server. The archives are copied to <InstallDir>/executionserver/applicationservers/ WebLogic.</p> <p>For more information on how to use the archives to deploy and configure Rule Execution Server, see Configuring Rule Execution Server.</p> |
| Rule Execution Server: Installation artifacts for other application servers > Rule Execution Server for Liberty profile | <p>Provides the archives to deploy and configure Rule Execution Server on Liberty Profile. The archives are copied to <InstallDir>/executionserver/applicationservers/WLP855.</p> <p>For more information on how to use the archives to deploy and configure Rule Execution Server, see Configuring Rule Execution Server.</p> |

Table 6. Decision Server Events

| Decision Server Events features | Description |
|--|--|
| WebSphere Application Server is a prerequisite for Decision Server Events. | |
| Event Designer | A development environment within Eclipse to design, develop, test, deploy, and monitor event applications. Event Designer is available from the Event perspective in Eclipse. |
| Runtime > Event Runtime | <p>The event runtime is an execution platform that manages real-time business event coordination. The event runtime requires WebSphere eXtreme Scale and must be deployed and configured on WebSphere Application Server.</p> <p>Select your intended use in accordance with your license type:</p> <p>Non-production license Select this option if you want to use the product for development purposes.</p> <p>This license can be deployed only as part of development and test environment for internal non-production activities.</p> <p>Production license Select this option if you want to use the product for production.</p> |
| Runtime > Event Tester Enabler | If Event Tester Enabler is selected, then the Event Tester widget is available. |

Table 6. Decision Server Events (continued)

| Decision Server Events features | Description |
|-------------------------------------|--|
| Runtime > Event Connectors (Legacy) | Event connectors provide data connections between the event runtime and external systems. Legacy connectors include email and ftp. |
| Event Widgets for Decision Server | The Event Tester widget provides a way to test the event logic in a business process. This widget is aimed at testing and must be used only on a test installation. Do not use it on a production installation as it might affect performance. |
| Integration Components | You can install integration components into the tooling of WebSphere ESB and WebSphere Message Broker to allow these products to send and receive data from Decision Server Events. |

Profile templates for WebSphere Application Server

When you install one of the Decision Server Events, Decision Server Rules, or Decision Center features, you must also install the corresponding profile templates. There are three profile templates:

- Rules profile templates for WebSphere Application Server
- Events profile templates for WebSphere Application Server
- Decision Center profile templates for WebSphere Application Server

These components contain the events and rules template profiles and runtime that are required to deploy Operational Decision Manager on a WebSphere Application Server.

For details on profile templates, see Operational Decision Manager profile templates.

Business Rules Embedded

With Business Rules Embedded, you can use business rules to dynamically configure the behavior of an Eclipse Rich Client Platform (RCP) application or a Dojo-based web application.

For detailed information about this component, see Business Rules Embedded.

Related information:

Installing Decision Server Insights

Installing Rule Solutions for Office

Once the installation of Decision Center is complete, you can manually run the installer for Rule Solutions for Office.

Before you begin

If you installed the product with Installation Manager, make sure that you selected the **Rule Solutions for Office** feature, see “Features you can install” on page 23.

You must have a supported version of Microsoft Office to install Rule Solutions for Office. For details, see *Working with Microsoft Office*.

About this task

Rule Solutions for Office is an optional component that provides a way for business users to create and edit business rules in Microsoft Word or Excel. The **Rule Solutions for Office** feature in Installation Manager copies the installer for Rule Solutions for Office to your installation directory.

Procedure

1. Navigate to `<InstallDir>/Rule Solutions for Office/`
2. Double-click the `RuleSolutionsForOffice.exe` file to run it.
3. Follow the steps in the installation wizard.

Installing on multiple workstations

You use the silent installation mode to install the product features on multiple workstations in an automated way. You perform a silent installation using the command line.

You perform a silent installation of the product by running Installation Manager with response files that correspond to the features that you want to install. You can create response files by recording them with Installation Manager. You can also use the template response files that are provided with the product, and adapt them to your needs.

Installing Installation Manager silently

You install Installation Manager in silent mode to automate its installation on several workstations.

About this task

If you have the Operational Decision Manager launchpad, which is available with Decision Center and Decision Server Rules, you can use the `installc.exe` or `userinstc.exe` executable files supplied with the product to install Installation Manager silently.

Procedure

1. Go to the installation directories that you have copied on your local disk and locate the IM or IM64 directory.
2. At a command line, run one of the following command:

You can add these commands to a script file in order to automate the procedure.

- If you are an administrator, enter:
(Windows) `installc.exe -silent -acceptLicense`
(Linux) `./installc -silent -acceptLicense`
- If you are not an administrator, enter:
(Windows) `userinstc.exe -silent -acceptLicense`
(Linux) `./userinstc -silent -acceptLicense`

Recording a response file with Installation Manager

You perform a silent installation using response files. Use Installation Manager to create the necessary files.

Procedure

1. Create a temporary directory to store the result of the recording.
2. Open a command line and go to `<im_install_dir>\eclipse`.
3. Open a command line and enter the following line to start Installation Manager:

You can give the response file a name of your choice.

- (Linux)

```
./IBMIM -record /path/to/response.xml -skipInstall /path/to/<tempDir>
```

- (Windows)

```
IBMIM.exe -record \path\to\response.xml -skipInstall \path\to\<tempDir>
```

The **-skipInstall** parameter avoids installing the components on your computer.

4. Click **File > Preferences**, and enter the path to the Installation Manager repository that corresponds to the component that you want to install.
5. Select the features you want to install.
6. Click **Install** and close Installation Manager.

What to do next

You can use the response file to perform a silent installation. You can dispose of the files that are generated in `<tempDir>` as part of the procedure.

Editing template response files

A number of template response files are provided so that you can adapt them to your installation requirements.

About this task

If you have the launchpad, you can find the template response files in the `responsefiles` repositories on the installation disks.

If you are installing Decision Server Insights, you must install the component on your computer to obtain the template response files. After the installation is complete, go to the directory `<InstallDir>/doc/silent` to find the template response files.

Procedure

1. Locate the template response file you want to adapt.
2. Open it in a text editor and replace the placeholders delimited with the `!` character with the actual value.

For example, if you are installing WebSphere Application Server, replace `!WAS_REPOSITORY!` with the path where the server is located. The list of the required values and of the product component features are given in the response file. Replace the features placeholder with the feature that you would like to install.

Running a silent installation

You can perform a silent installation of the product using response files that you record or the template response files.

About this task

If you have the launchpad, which is available with Decision Center and Decision Server Rules, you can find the template response files in the responsefiles repositories on the installation disks.

If you are installing Decision Server Insights, you must install the component on your computer to obtain the template response files. After the installation is complete, go to the directory `<InstallDir>/doc/silent` to find the template response files.

Procedure

1. Open a command line and go to the directory where you installed Installation Manager.
2. Go to the directory `eclipse\tools`.
3. To install the product components with response files, type the following command:

On Windows, as an administrator:

```
imcl.exe -accessRights admin -input \path\to\<response file> -nosplash -silent -acceptLicense
```

On Windows, as a user:

```
imcl.exe -accessRights nonAdmin -input \path\to\<response file> -nosplash -silent -acceptLicense
```

On Linux, as an administrator:

```
./imcl -accessRights admin -input /path/to/<response file> -nosplash -silent -acceptLicense
```

On Linux, as a user:

```
./imcl -accessRights nonAdmin -input /path/to/<response file> -nosplash -silent -acceptLicense
```

What to do next

You can add these commands to a script file to automate further the procedure.

Checking your installation

You can verify the content of the installation directory and use shortcuts to access product components and information.

Folders in the installation directory

After you finish installing the Operational Decision Manager components, you can verify the content of the installation directory.

In your file system, go to your `<InstallDir>` folder: for example, `C:\Program Files\IBM\ODM87`. The Operational Decision Manager components are installed in the following folders:

Table 7. Component-folder mapping

| Component | Folders |
|------------------------------|----------------------|
| Decision Server Rules | |
| Rule Designer | studio |
| Rule Execution Server | executionserver |
| Getting started tutorials | gettingstarted |
| Shared third-party tools | shared |
| Sample server | shared/samplesServer |

Table 7. Component-folder mapping (continued)

| Component | Folders |
|---|---|
| .NET engine and migration tool | dotnet |
| Configuration files and plug-ins for Rule Designer | configuration |
| Local help system and XML schemas | doc |
| Extensions to Rule Designer | dropins |
| Files to package plug-ins into a feature during Eclipse configuration processing | features |
| Eclipse plug-ins | plugins |
| JDK (Windows only) | jdk |
| License agreement files | license |
| Provisioning system files | p2 |
| Decision Server Events | |
| Legacy event connectors | connectors |
| Files that support the event runtime engine. This directory also includes the compressed files for downloading and installing the Event Tester, and the Event Capture and Event Replay widgets. | runtime |
| Events connectors | ca |
| Configuration files | config |
| Configuration files and plug-ins for Event Designer | configuration |
| Extensions to Event Designer | dropins |
| Integration with other IBM products such as WebSphere Message Broker and WebSphere ESB | integration |
| Decision Center | teamservice, Rule Solutions for Office (optional) |
| Business Rules Embedded | rules-sdk |

IBM Installation Manager installs the Eclipse plug-ins in the shared resources directory. The shared resources directory contains resources that can be shared by one or more package groups. This directory is managed by IBM Installation Manager and you must not modify anything in this directory.

The Eclipse plug-ins are also copied to <InstallDir>/studio/update-sites providing that you selected the corresponding option in IBM Installation Manager when installing the product. The update sites are delivered as ZIP files that you can extract to view the plug-ins.

If you install the component Profile templates for WebSphere Application Server, the corresponding folders are located in the following directories:

<WAS_InstallDir>/profileTemplates/rules for rules profiles.

<WAS_InstallDir>/profileTemplates/wbe for events profiles.

Menu shortcuts

For each component that you install in Windows, the installer adds shortcuts to the menu. You can access the shortcuts through the start menu.

Your choice of installation determines what shortcuts the installer adds to the shortcut menu. If, for example, you choose Rule Designer, the shortcut for Rule Designer is added. If you choose Rule Execution Server, the shortcut for the Rule Execution Server console is added.

Assuming you have installed every single Operational Decision Manager component, you get the following menu shortcuts.

| Start menu navigation | Shortcuts |
|---|--|
| Start > All Programs > IBM > Package_Group | <p>The following is available under the package group level:</p> <ul style="list-style-type: none"> • Event Designer opens Eclipse in the Event perspective. • IBM Knowledge Center opens the product documentation online. • Rule Designer opens Eclipse in the Rule perspective. • Getting Started Tutorials • Help and Support • Sample Server • Rule Solutions for Office opens rule solutions for Office. This shortcut is only available if you install Rule Solutions for Office. To install Rule Solutions for Office, you must select the corresponding option in Installation Manager. You then run the installation manually by using the provided .exe file in <i><InstallDir>/Rule solutions for Office</i>. |
| Start > All Programs > IBM > Package_Group > Getting Started Tutorials | <p>The following is available under Getting Started tutorials:</p> <ul style="list-style-type: none"> • Decision Center Business console opens the Getting Started for the Business console. • Decision Center Enterprise console opens the Getting Started for the Enterprise console. • Decision Server Events opens the Getting Started for Events. • Decision Server Rules opens the Getting Started for Business Rules. |
| Start > All Programs > IBM > Package_Group > Help and Support | <p>You can use this shortcut to find the following documentation and support information:</p> <ul style="list-style-type: none"> • Collect Data for Problem Analysis opens the IBM Support Assistant Data Collector for collecting diagnostic data. • Online Support opens the IBM Support home page. • Start Information Center (local) starts the local version of the product documentation. • Stop Information Center (local) |

| Start menu navigation | Shortcuts |
|---|--|
| Start > All Programs > IBM > Package_Group > Sample Server | <p>You can use this shortcut to access the following sample server tools and functions.</p> <ul style="list-style-type: none"> • Administrative console opens the WebSphere Application Server administrative console. • Decision Center Business console opens the Decision Center Business console and targets a database that contains the provided sample projects in the en_US persistence locale. • Decision Center Enterprise console opens the Decision Center Enterprise console, and targets a database that contains the provided sample projects in the en_US persistence locale. • Events Administration console opens the Administration user interface for Events. • Rule Execution Server Console opens the Rule Execution Server console. • Samples console (en_US) opens Eclipse in the Samples console perspective with the en_US locale (American English). • Start server starts the sample profile on WebSphere Application Server. • Stop server stops the sample profile on WebSphere Application Server. • Events tools: <ul style="list-style-type: none"> – Connectors opens the tooling for Events legacy connectors. – Event Widgets opens the web application in a web browser. – Properties opens the Properties tool. |

Shortcut commands

A list of the components that you can access via shortcut commands.

The installer adds relevant shortcuts in batch (.bat) files on Windows and Bash shell script (.sh) files on Linux.

You can consult the shortcut commands for your respective operating system environment:

- “Windows”
- “Linux” on page 36

Windows

| Shortcuts | Windows commands |
|---|---|
| Administrative console (Sample Server) | <InstallDir>/shared/bin/Administrativeconsole.bat |
| Connectors | <InstallDir>/connectors/bin/connectors.bat |
| Decision Center Enterprise console (Sample Server) | <InstallDir>/shared/bin/dcecopener.bat |
| Decision Center Business console (Sample Server) | <InstallDir>/shared/bin/dcbcopener.bat |

| Shortcuts | Windows commands |
|--|---|
| Events Administration console | <InstallDir>/shared/bin/EventRuntimeopener.bat |
| Event Designer | <InstallDir>/eclipse.exe -init -consolelog -perspective com.ibm.wbe.BusinessEvents |
| Getting Started for Decision Server Rules | <InstallDir>/images/GettingStartedServerRules.bat |
| Getting Started for Decision Center Business console | <InstallDir>/images/GettingStartedCenterBusinessConsole.bat |
| Getting Started for Decision Center Enterprise console | <InstallDir>/images/GettingStartedCenterEnterpriseConsole.bat |
| Getting Started for Decision Server Events | <InstallDir>/images/GettingStartedServerEvents.bat |
| Information center (remote) | <InstallDir>/images/InfoCenterOnline.bat |
| Collect Data for Problem Analysis | <InstallDir>/shared/isadc/index.html |
| Properties | <InstallDir>/connectors/bin/propertiesui.bat |
| Rule Execution Server console (Sample Server) | <InstallDir>/shared/bin/dsopener.bat |
| Rule Designer | <Eclipse_InstallDir>/eclipse.exe -init -consolelog -perspective ilog.rules.studio.ui.perspectives.RuleEditingPerspective |
| Samples console (en_US) | <Eclipse_InstallDir>/eclipse.exe -init -consolelog -nl en_US -perspective ilog.rules.studio.samples.console.perspectives.SamplesPerspective |
| Start server (Sample Server) | <InstallDir>/shared/bin/startserver.bat |
| Stop server (Sample Server) | <InstallDir>/shared/bin/stopservice.bat |

Linux

| Shortcuts | Linux commands |
|--|--|
| Administrative console (Sample Server) | <InstallDir>/shared/bin/Administrativeconsole.sh |
| Connectors | <InstallDir>/connectors/bin/connectors.sh |
| Decision Center Enterprise console (Sample Server) | <InstallDir>/shared/bin/dcecopener.sh |
| Decision Center Business console (Sample Server) | <InstallDir>/shared/bin/dcbcopener.sh |
| Events Administration console | <InstallDir>/shared/bin/EventRuntimeopener.sh |
| Event Designer | <InstallDir>/eclipse -init -consolelog -perspective com.ibm.wbe.BusinessEvents |
| Getting Started for Decision Server Rules | <InstallDir>/images/GettingStartedServerRules.sh |
| Getting Started for Decision Center Business console | <InstallDir>/images/GettingStartedCenterBusinessConsole.sh |
| Getting Started for Decision Center Enterprise console | <InstallDir>/images/GettingStartedCenterEnterpriseConsole.sh |
| Getting Started for Decision Server Events | <InstallDir>/images/GettingStartedServerEvents.sh |
| Information center (remote) | <InstallDir>/images/InfoCenterOnline.sh |

| Shortcuts | Linux commands |
|--|---|
| Collect Data for Problem Analysis | <InstallDir>/shared/isadc/start_isadc.sh |
| Properties | <InstallDir>/connectors/bin/propertiesui.sh |
| Rule Execution Server console (Sample Server) | <InstallDir>/shared/bin/dsopener.sh |
| Rule Designer | <Eclipse_InstallDir>/eclipse -init -consolelog -perspective ilog.rules.studio.ui.perspectives.RuleEditingPerspective |
| Samples console (en_US) | <Eclipse_InstallDir>/eclipse -init -consolelog -nl en_US -perspective ilog.rules.studio.samples.console.perspectives.SamplesPerspective |
| Start server (Sample Server) | <InstallDir>/shared/bin/startserver.sh |
| Stop server (Sample Server) | <InstallDir>/shared/bin/stopsrver.sh |

Starting Rule and Event Designer

Open Rule Designer or Event designer from the start menu shortcut, or from the Eclipse that contains Rule Designer or Event Designer. You can update the configuration file to open them in a specific locale.

Opening Rule and Event Designer

You can open Rule Designer or Event Designer from the start menu shortcut, or by starting the Eclipse that contains them.

About this task

You can open Rule Designer or Event Designer from the start menu shortcut, or by starting the Eclipse that contains them.

By default, the Rule and Event designer open in the locale of your operating system. If you want to change the locale, see “Opening Rule and Event Designer in a specific locale” on page 38.

Procedure

To open the Rule Designer for example, do one of the following actions:

- Click **Start > All Programs > IBM > *package_group* > Rule Designer**.
package_group refers to the package group specified in IBM Installation Manager during installation. The default package group is Operational Decision Manager V8.7.
- Start the Eclipse in which you have installed Rule Designer, and switch to the **Rule** perspective.

Results

On IBM AIX and SUN Solaris, Rule Designer and Event Designer run in headless Eclipse. This means that you can only start them from the command line.

If you have used a previous version of Rule Designer or Event Designer, perform a full clean and then rebuild your existing projects in the Eclipse workspace the first time you start V8.7.

The Eclipse Welcome page (**Help > Welcome**) provides an entry point to the overview, tutorials, and samples.

Related information:

“Opening Rule and Event Designer in a specific locale”

You can start Rule Designer or Event Designer in a locale other than the locale of your operating system. If you are using a bidirectional locale, you can also change the display orientation of Eclipse.

Opening Rule and Event Designer in a specific locale

You can start Rule Designer or Event Designer in a locale other than the locale of your operating system. If you are using a bidirectional locale, you can also change the display orientation of Eclipse.

About this task

By default, the Designers open in the locale of your operating system. You can change the locale by adding a property to the `config.ini` file.

Note:

Rule Designer and Event Designer open in the specified locale if you have selected the locale in IBM Installation Manager, when installing Decision Server.

Procedure

To change the locale of Rule Designer for example:

1. Open `<InstallDir>/configuration/config.ini`.
<InstallDir> refers to the installation directory of Operational Decision Manager. However, if you installed Operational Decision Manager in an existing Eclipse, the `config.ini` file is located in the `configuration` folder of your Eclipse installation directory.
2. Add the following properties:
 - `osgi.nl=<locale>`: to specify the locale, for example `osgi.nl=fr_FR`.
 - (Optional) `eclipse.orientation=<orientation>`: to change the display orientation of Eclipse, for example `eclipse.orientation=ltr`.
`ltr` defines a left-to-right orientation, and `rtl` defines a right-to-left orientation.
For bidirectional locales such as Arabic and Hebrew, the rule editors are localized and displayed from right to left. However, the rest of the Rule Designer interface is not localized. If you start Eclipse in a bidirectional locale, it is displayed from right to left, but Rule Designer remains in English. You can use the `ltr` value to display Rule Designer from left to right, and the editors from right to left.
3. Save the changes.

Note:

- You can also use the `-nl <locale>` argument in the command line to start Eclipse. For example, `-nl fr_FR`.
- You can also use the `-dir <orientation>` argument in the command line to start Eclipse with a specific orientation. For example, `-dir ltr`.

Related information:

“Opening Rule and Event Designer” on page 37

You can open Rule Designer or Event Designer from the start menu shortcut, or by

starting the Eclipse that contains them.
Defining a calendar format

Upgrading from an Express license to a full license

You might want to upgrade from a Decision Center Express to a Decision Center license or from a Decision Server Express to a Decision Server Standard or Advanced license to benefit from the full range of capabilities that the product offers.

To upgrade to a fully-fledged version of the product, you cannot simply use the **Modify** option of the Installation Manager. You must first uninstall the Express version completely from your computer, and then reinstall it by using the launchpad or Installation Manager.

Related tasks:

“Uninstalling Operational Decision Manager”

Use Installation Manager to uninstall components or the entire Operational Decision Manager product.

Related information:

“Installing the product with Installation Manager” on page 12

Use Installation Manager to install Operational Decision Manager. When you install through Installation Manager, ensure that you install only the components for which you have a valid license.

Uninstalling Operational Decision Manager

Use Installation Manager to uninstall components or the entire Operational Decision Manager product.

Before you begin

Before you uninstall, stop all processes that might access existing Operational Decision Manager databases. In particular, if you use Derby databases, stop the Derby Java process, and ensure that your current database directory does not have a residual Derby lock file. The presence of the Derby lock file causes the installation to fail. To remove the Derby lock file, go to <InstallDir>/shared/data/derby/resdb and remove the db.lock file.

Stop all the applications that run with the product, including the server, the local help, and any instance of Rule Designer or Event Designer.

Manually delete the ODMSample8700 profile for WebSphere Application Server before you uninstall. The ODMSample8700 profile is created when you start the Sample server. For more information, see Deleting profiles.

If your packages have any dependencies, you must uninstall the packages and their respective dependencies.

You must have the same user privileges to uninstall Operational Decision Manager as you use to install the product on your workstation. Log in to your workstation with the same user account that you use to install the product packages.

Uninstall Operational Decision Manager with the correct instance of Installation Manager:

- If you installed the product as an administrator, you must use the administrator instance of Installation Manager to uninstall it. You can access the administrator instance through the **IBM Installation Manager** start menu shortcut. Right click **IBM Installation Manager**, and then select **Run as administrator**.
- If you installed the product as a nonadministrator user, you must use the nonadministrator instance of Installation Manager to uninstall it. You can access the nonadministrator instance through the **IBM Installation Manager** start menu shortcut.

About this task

Remove components and features through the **Modify** option in Installation Manager. Remove the entire Operational Decision Manager product through the **Uninstall** option in Installation Manager.

Procedure

1. Close the programs that you installed with Installation Manager.
2. Start Installation Manager from the **Start** menu.
3. Depending what you want to uninstall, click **Modify** or **Uninstall**. Select **Modify** to uninstall components and features. Select **Uninstall** to uninstall the entire Operational Decision Manager product.
4. Select the components that you want to uninstall, then click **Next** and **Uninstall**.

Related concepts:

“Upgrading from an Express license to a full license” on page 39

You might want to upgrade from a Decision Center Express to a Decision Center license or from a Decision Server Express to a Decision Server Standard or Advanced license to benefit from the full range of capabilities that the product offers.

“Installing the product with the launchpad” on page 8

Some of the Operational Decision Manager components come with a launchpad. Use the launchpad to run a typical installation and get everything that you need to get up and running with these components. Ensure that you install only the components for which you have a valid license.

Related information:

“Installing the product with Installation Manager” on page 12

Use Installation Manager to install Operational Decision Manager. When you install through Installation Manager, ensure that you install only the components for which you have a valid license.

What's next?

Review the following topics after you install Operational Decision Manager.

Enabling IBM License Metric Tool (ILMT)

IBM License Metric Tool (ILMT) helps you manage license allocation services on supported systems. In general, it recognizes and monitors the products that are installed and in use on your system.

IBM License Metric Tool is enabled for Operational Decision Manager for inventory support only. It is able to detect product installation and deployment of Operational Decision Manager, but not its usage.

When installed and activated, the tool scans your system for product inventory signatures that indicate whether a product is installed on your system. It also identifies the version, release, and modification levels of the product.

Decision Center:

IBM License Metric Tool reports the Decision Center when the application is deployed to an application server.

The application must be deployed as an exploded archive for the tool to detect it.

- On WebSphere Application Server and Tomcat, an archive is exploded by default during deployment.
- On other application servers, an archive must be exploded before deployment:
 - Deploying on WebLogic Server
 - Deploying on JBoss
 - Deploying WebSphere Application Server Liberty profile

Decision Server:

IBM License Metric Tool reports every deployment of the execution server namely, Insight Server, Rule Execution Server, Event runtime, Classic rule engine, and Decision engine.

IBM License Metric Tool also reports usage of Rule Execution Server when the eXecution Unit resource adapter is deployed as an exploded archive.

- On WebSphere Application Server and Tomcat, an archive is exploded by default during deployment.
- On other application servers, an archive must be exploded before deployment:
 - Deploying on WebLogic Server
 - Deploying on JBoss
 - Deploying WebSphere Application Server Liberty profile

Important: For Java SE application that embeds the rules engine or the J2SE Rule Execution Server, you must deploy the file with the suffix *.swidtag* found in `<InstallDir>/license/ilmt.zip` along with Operational Decision Manager JAR files.

Installing and accessing the documentation locally

You can access the product documentation over the internet. However, you can install a local version of the documentation if you want to work offline or do not have an internet access. If you are an Eclipse user, you must install the documentation locally to be able to consult it from within the IDE.

Downloading the product documentation on your computer

To consult the product documentation locally, you must download the documentation files on your computer.

Before you begin

The **Local help system** option is checked by default in the Installation Manager. To consult the documentation locally, you must first start the local help and then download the documentation files. Note that the download of the files requires you to have access to the internet. This access will no longer be required later.

About this task

Important:

The local help system does not work on 64-bits platforms such as Red Hat Enterprise Linux (RHEL) that do not have a 32-bits compatibility library installed.

Procedure

1. Start the help system in one of the following ways:
 - In the **Start** menu, click **All Programs** > **IBM** > *package_group* > **Help and Support** > **Start Information Center (local)**.
package_group refers to the package group specified in IBM Installation Manager during installation.
 - Run the following script:
 - <InstallDir>/doc/help_start.bat on Windows
 - <InstallDir>/doc/help_start.sh on Linux.


To run the information center in a locale other than English, add the locale argument (-nl xx_XX) to the <InstallDir>/doc/help_start.bat or <InstallDir>/doc/help_start.sh file, before the -vmargs argument. For example:

```
-eclipsehome eclipse -nl fr_FR -configuration configuration_iehs
```

A new browser window opens. The documentation does not display because you still must download the documentation content.

Important:

If you installed the product on Windows 7 in the Program Files or Program Files (x86) directory without administrator privileges, you might not be able to start the help system. To avoid potential issues, be sure to install the product with administrator rights or in a different directory.

2. Click  **Update** in the toolbar to display a list of the documentation sets that are already installed.
3. Click **Next** to display a list of documentation sets that you can install. The list includes documentation sets in English and other supported languages.
4. Click **Install**. The Update wizard installs the documentation.
5. Click **OK**, then click **Finish**.
6. Refresh the page to view the documentation.

Results

The documentation is installed on your computer.

Accessing the local contextual help in Eclipse environments

To access the product documentation and the contextual help from within Rule Designer, Event Designer or Insight Designer you must download the documentation files locally.

Before you begin

By default, the local help system is installed on your machine unless you uncheck the corresponding option in Installation Manager. You must then download the files onto your local disk through an Internet connection.

About this task

To use the local contextual help from the Designers, you must start the local instance of the information center. The installer inserts the necessary parameters to access the help from the Designers.

If you want to change the parameters to point to a different instance of the information center, for example a shared information center server running on an internal network, you can modify the values in the Designers.

Procedure

1. Check that the settings to use the local help are set correctly:
 - a. Click **Window > Preferences > Help > Content**.
 - b. Make sure **Include remote help and give it priority** is selected.
 - c. Select the link to the information center and click **Edit**.
 - d. Make sure that the local information center has the following values:
 - **Name:** Local
 - **URL:** `http://localhost:3333/help`Make sure the local help entry is at the top of the list. If not, move it up by using the **Up** button.
 - e. Click **OK**, and then click **Apply** and **OK**.
2. Start the local help:
 - In the **Start** menu, click **All Programs > IBM > *package_group* > Help and Support > Start Information Center (local)**
 - Run the `<InstallDir>/doc/help_start.bat` (Windows) or `<InstallDir>/doc/help_start.sh` (Linux)

Important:

If you installed the product on Windows 7 in the Program Files or Program Files (x86) directory without administrator privileges, you might not be able to start the help system. To avoid potential issues, be sure to install the product with administrator rights or in a different directory.

3. On the **Help** menu, click **Help Contents**.

If you have already installed the documentation, the local information center for the Operational Decision Manager product family, Decision Center, and Decision Server is displayed.

Running a shared information center on an internal network

You can run the information center on an internal network.

Before you begin

Before running the information center on an internal network, make sure that you have installed the documentation locally as described in “Downloading the product documentation on your computer” on page 41.

About this task

If you have selected the **Local help system** option, you can set the help system up so that the information center runs on an internal network.

Procedure

To start the information center on an internal network:

1. Run `<InstallDir>/doc/IC_start.bat` on Windows or `<InstallDir>/doc/IC_start.sh` on Linux.

By default, the shared information center runs on port 9999.

2. Optional: To modify the default port, edit the `IC_start.bat` or `IC_start.sh` file, and modify the port argument. For example, `-port <port_number>`.

When the shared information center is started, it is accessed using browsers from other systems at the address `http://<hostname>:<port>/help`.

Note: To access different locales in the information center, specify the locale at the end of the URL. For example, `http://<ic_hostname>:9999/help/index.jsp?lang=xx_XX`

The locales include `de_DE`, `es_ES`, `fr_FR`, `it_IT`, `ja_JP`, `ko_KR`, `pl_PL`, `pt_BR`, `ru_RU`, `zh_CN`, and `zh_TW`.

3. Optional: Configure the help preferences in Rule Designer to access the information center:
 - a. Click **Window > Preferences > Help > Content**.
 - b. Select **Include remote help and give it priority**, then click **New**.
 - c. Enter the values for the information center that you want to connect to, for example:
 - **Name:** Operational Decision Manager information center
 - **Host:** `<ic_hostname>`
 - **URL:** `http://localhost:9999/help`
 - d. Click **OK**, and then click **Apply** and **OK**.

The contextual help now uses your new parameters.

Stopping the local help

Before uninstalling the product offerings in Installation Manager, you must stop the information center process to avoid encountering uninstallation issues.

To stop the local information center:

- On Windows, run `<InstallDir>/doc/help_end.bat`.
- On Linux, run `<InstallDir>/doc/help_end.sh`.

To stop the shared information center:

- On Windows, run `<InstallDir>/doc/IC_end.bat`.
- On Linux, run `<InstallDir>/doc/IC_end.sh`.

Redirecting contextual help in web consoles

By default, the contextual help in web consoles points to the online documentation. To redirect the contextual help to point to a local or network instance of the documentation, you must change the value of the URL in the EAR file where it is defined.

About this task

To redirect the contextual help to a local instance of the documentation, you must first change its URL in the EAR file to the local URL, and then redeploy the EAR file.

Procedure

1. Update the EAR file. This file is located in these directories:
 - Decision Center Business console:<installDir>/teamserver/applicationservers/WebSphere85/jrules-teamserver-WAS85.ear
The value to modify is defined in the preferences.properties file in the decisioncenter.war file.
 - Decision Center Enterprise console:<installDir>/teamserver/applicationservers/WebSphere85/jrules-teamserver-WAS85.ear
The value to modify is defined in the preferences.properties file in the teamserver.war file.
 - Rule Execution Server console:<installDir>/executionserver/applicationservers/WebSphere85/jrules-res-management-WAS85.ear
The value to modify is defined in the web.xml file in the jrules-res-management.war file.
2. Once done, recreate the archive and redeploy it as explained below.
 - a. Start the sample server. From the **Start** menu, choose **IBM > Operational Decision Manager V8.7 > Sample server > Start server**.
To start the sample server, you can also go to <InstallDir>/shared/bin, and then start startserver.bat or startserver.sh, depending on your operating system.
 - b. Start the Administrative console. From the **Start** menu, choose **IBM > Operational Decision Manager V8.7 > Sample server > Administrative console**.
To start the sample Administrative console, you can also go to <InstallDir>/shared/bin, and then start AdministrativeConsole.bat or AdministrativeConsole.sh, depending on your operating system.
 - c. Sign in with the credentials that you provided when you installed the product.
 - d. Select **Applications > Application Types > WebSphere enterprise applications**. The Enterprise Applications table displays.
 - e. Select the application that interests you.
 - f. Click **Update**.
The Application update options display.
 - g. Under **Specify the path to the replacement ear file**, browse to and select your updated EAR file.
 - h. Click **Next**, and continue to click **Next** until you get an option to finish, and then click **Finish**.
The **Save** option appears at the bottom of the screen.
 - i. Click **Save**.
 - j. Sign out of the Administrative console.

Starting the sample server

Before you develop, test, and run the samples and tutorials, you must start the Sample Server. You can start the sample server from the Start menu.

About this task

No additional configuration is required start the sample server.

When you start the sample server for the first time, the ODMSample profile is configured on WebSphere Application Server Network Deployment to run the included samples and tutorials.

Start the sample server from the **Start** menu shortcut.

Procedure

From the **Start** menu, click **All Programs > IBM > *package_group* > Sample Server > Start server**. *package_group* refers to the package group specified in IBM Installation Manager when you install the product. The default package group is Operational Decision Manager V8.7. The profile creation takes several minutes to complete. Wait until the build completes successfully.

What to do next

You can perform a number of introductory tasks using the environment that is installed for you by the sample server installer:

- Perform the Getting started tutorials, and other component-specific tutorials, see Tutorials
- Run the samples from the samples console in Eclipse, see Product samples.

For more information, see Using the sample server

Note:

- If you are using the sample server profile to run Events, you can use the same username and password to log in to the Event Widgets and to the Events Administration console.
- Single sign-on (SSO) authentication is activated for the sample server. With SSO, users can log in once and gain access to all applications without being prompted to log in again for each of them. If you use different sign-on credentials for the applications on the sample server, for example when performing certain samples and tutorials, you get an error message when you attempt to sign in to the second application.

To avoid this issue, you must sign out of the first console and then sign in to the second console. Alternatively, you can sign in to all of the applications on the server by using the credentials that you entered at installation time.

Troubleshooting the installation

If you encounter difficulties installing the products, you can check the installation logs or the limitations and known issues technote.

When you contact IBM support, make sure that you have the following information at hand:

- Version of Installation Manager installed
- Components installed and version numbers
- Operating system
- Installation Manager logs

Installation logs

If you have difficulties installing the product through Installation Manager, retrieve the installation logs to find out more information on the issues encountered.

- **Installation Manager:**

- Windows 2000, XP, and 2003: C:\Documents and Settings\All Users\Application Data\IBM\Installation Manager\logs
- Windows Vista, 7, and 2008: C:\ProgramData\IBM\Installation Manager\logs
- UNIX: /var/ibm/InstallationManager/logs

For more information, see Finding IBM Installation Manager troubleshooting logs.

- **Launchpad:**

- Windows: %TEMP%\IBM_LaunchPad_Typical_Install_<hash_key>\%TEMP% is the environment variable that defines the location of your Temp directory. <InstallType> refers to the type of installation that you selected. If the launchpad fails before even starting the installation, no installation type is indicated in the folder name.
- UNIX: /tmp/IBM_LaunchPad_Typical_Install<hash_key>/

Limitations and known issues

To find a list of the current limitations and known issues, check the technote Known limitations in Operational Decision Manager V 8.7.

Setting up your environment to automate processes

To deploy RuleApps to Rule Execution Server, automate managerial tasks within Decision Center, and run many of the samples, you must have Ant installed on your computer.

About this task

The required version of Ant is 1.7.1 (or later). If Ant is not installed, or your version is older than version 1.7.1, you must set up your environment to use the correct version of Ant.

You can download Ant from <http://ant.apache.org/>, or you can use the Ant 1.7.1 distribution packaged in the following directory: <InstallDir>/shared/tools/ant.

Procedure

To test and set up your environment to use Ant:

1. Set the *ANT_HOME* environment variable to **<InstallDir>/shared/tools/ant**.
2. Set the *JAVA_HOME* environment variable to the path to your JDK installation (version 1.7.1).
3. Add the directory **<InstallDir>/shared/tools/ant/bin** to your *PATH* environment variable.
4. Test your current version of Ant by typing the following in a Windows command prompt or UNIX shell:

```
ant -version
```

Post-installation configuration

After you install and check your installation, consult the configuration topics for information about setting up your product. Depending on the installation option that you select, you might have some configuration work to do.

Your post-installation configuration depends on the components that you install and your use of the product. You might, for example, use an application server other than WebSphere Application Server. You might, for example, want to use your product installation for production purposes. Both examples require configuration after you install.

Configuring your application server

The default application server is WebSphere Application Server. If you select the artifacts for another application server when you install, you must configure your product. Consult the appropriate configuration topics. For more information, see the configuration topics.

- [Configuring Operational Decision Manager on Tomcat](#)
- [Configuring Operational Decision Manager on JBoss51 and Configuring Operational Decision Manager on JBoss61](#)
- [Configuring Operational Decision Manager on Oracle WebLogic Server](#)

Configuring your application on a production server

After you install Rule Designer and Event Designer, some configuration is required before you can start to design your application in Decision Server:

- To execute your rule-based application, see [Configuring Rule Execution Server](#).
- To execute your application with event processing, see [Configuring Decision Server Events](#).
- To deploy the Operational Decision Manager runtime profile templates for WebSphere Application Server, see [Operational Decision Manager profile templates](#)
- For business users to edit and test rules in Decision Center, see [Configuring](#).

For more information, see “[Configuring your application on a production server](#).”

To get a better understanding of the development lifecycle with Operational Decision Manager, see [Business rule application development](#).

Related tasks:

[Configuring Decision Server Events on WebSphere Application Server](#)

“[Installing with the launchpad](#)” on page 9

Run the launchpad to install a typical installation of your Operational Decision Manager product components. When you install through the launchpad, you install your product components and all the available installation features. The launchpad also installs the required software.

Related information:

[Configuring Rule Execution Server on WebSphere Application Server](#)

[Configuring the Decision Center consoles on WebSphere Application Server](#)

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