

IBM Operational Decision Manager
Version 8 Release 5

Installation Guide



Note

Before using this information and the product it supports, read the information in “Notices” on page 47.

This edition applies to version 8, release 5, modification 0 of Operational Decision Manager and to all subsequent releases and modifications until otherwise indicated in new editions.

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Installing

The IBM® Operational Decision Manager installer provides several installation options, typical and custom, to install the product with various server topologies.

You can install the product with a sample server to test the product features and run samples and tutorials, with a stand-alone server, with WebSphere® Application Server to benefit from a cluster environment, or with any other application server.

You can also run a silent installation if you plan to install the product on several computers.

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

Installable components

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.

You can use the installer to install the standard version of the product or Operational Decision Manager Express.

In addition to the product components, the installer comes with a set of software that is required for Operational Decision Manager to work with specific configurations.

For more information about what software is required, see “Checking the software requirements” on page 4.

Related information:

“Installing the product with Installation Manager” on page 20

If you already installed the required software, you can use Installation Manager to select the specific Operational Decision Manager packages that you want to install.

Operational Decision Manager components

Depending on the license that you have, you can install either some or all of the Operational Decision Manager components. Some components include several features that you can select.

Decision Server

This component includes the following features:

- Rule Designer and Event Designer: development environments that are based on Eclipse.
- Rule Execution Server: execution environment for business rules.
- Event runtime: execution environment for event rules.

Decision Center

This component includes the following features:

- Decision Center Enterprise console and Decision Center Business console: authoring environments for business users to author, manage, and test their business rules.
- Rule Solutions for Office: an environment for business users to author rules in Microsoft Word and Excel.
- Event Widgets.

Profile templates for WebSphere Application Server

This component includes rules and events profile templates and runtime for deploying Operational Decision Manager on WebSphere Application Server.

To install this component, you must have a Decision Server license.

Business Rules Embedded

This component includes a development environment for adding business rules functionality to applications.

To install this component, you must have a Decision Server license.

Sample server

This component includes a server to run applications, samples, and tutorials on WebSphere Application Server Network Deployment.

Operational Decision Manager Express

IBM Operational Decision Manager Express entitles you to use only the business rules capabilities (not the events capabilities) within a limited configuration. In particular, you cannot use Operational Decision Manager Express in a cluster environment and you will have access to limited capacity. Check the terms of your license for more information.

If you have an Operational Decision Manager Express license, you can install the following components.

Component name		Installable
Decision Server	Rule Designer	YES
	Event Designer	NO
	Rule Execution Server	YES
	Event runtime	NO
	Event widgets	NO
Decision Center	Business Console / Enterprise Console	YES
	Rule Solutions for Office	YES
	Event widgets	NO
Profile templates for WebSphere Application Server		NO
Business Rules Embedded		NO
Sample server		YES

Upgrading Operational Decision Manager Express to Operational Decision Manager

You might want to upgrade from Operational Decision Manager Express to Operational Decision Manager to benefit from the events features and the clustering capabilities.

In this case, you cannot simply use the Modify packages option of the Installation Manager to upgrade to the fully-fledged version. 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 the product” on page 44

To uninstall Operational Decision Manager, you must use the uninstall option of Installation Manager.

Related information:

“Installing the product with Installation Manager” on page 20

If you already installed the required software, you can use Installation Manager to select the specific Operational Decision Manager packages that you want to install.

Preliminary steps

Before you install Operational Decision Manager, you must download and decompress the installer by using an archiving utility of your choice. You must also make sure that you have the prerequisite software installed.

Downloading the product installers

To install Operational Decision Manager, you must copy or download the installation disks onto your computer. If you download the files, you have to decompress them by using an archiving utility of your choice.

About this task

The installation files are available on DVDs or can be downloaded from the IBM website. Starting the installation from DVDs can be slow. Therefore, the recommendation is to copy or download the installer files onto your computer before you start the installation.

You can copy or download onto your computer only the disks that correspond to the components that you intend to install. Be sure to install all the disks that you need in the same directory.

Procedure

1. Choose the tar file that corresponds to your target operating system.

To avoid any issue with the file extraction, make sure that the path to the directory is short. You can, for example, extract the tar files to the root of your hard disk: C:\ODM85.

2. Extract the files:

- If you use WinZip, clear **TAR file smart CR/LF conversion** in **Option > Configuration > Miscellaneous**.
- If you are a 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, you obtain three folders named disk1, disk2, and disk3. Each folder contains the following common elements:

- Installation Manager: the Installation Manager is required to proceed with the installation of the Operational Decision Manager components.
- A launchpad executable file: you use the launchpad to install the product components along with the required software.
- A set of response files: you use the response files to install the product in silent mode.

In addition:

- The disk1 folder contains WebSphere Application Server (WAS directory), IBM SDK Java™ Technology Edition Version 7.0 for WebSphere (WASJDK7 directory), and WebSphere eXtreme Scale (WXS repository).
- The disk2 folder contains Decision Server (WDS directory), Profile templates for WebSphere Application Server (OW directory), and Embedded Rules (ER directory).
- The disk3 folder contains Decision Center (WDC directory).

Related concepts:

“Installing the product with the launchpad” on page 11

Operational Decision Manager comes with a launchpad that helps you install the product along with the additional required software. The launchpad has three installation options: Sample Server, Stand-alone Server, and Custom Installation.

“Installing in silent mode” on page 35

In some cases, Operational Decision Manager has to be installed within a specific configuration on multiple computers. You can install the product components by running Installation Manager in silent installation mode to automate the process, and deploy the products to multiple systems.

“Checking the software requirements”

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

Related information:

“Installing the product with Installation Manager” on page 20

If you already installed the required software, you can use Installation Manager to select the specific Operational Decision Manager packages that you want to install.

Checking the software requirements

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

The programs that are listed in the following table are required for Operational Decision Manager to function. They are supplied as part of the installer. If they are not already installed on your computer, you can use the launchpad to install them.

Table 1. Required software to install Operational Decision Manager

Required software	Description
Installation Manager V1.6.0 or later	Installation Manager is used to install the Operational Decision Manager packages. The version of Installation Manager supplied with the product is 1.6.2.

Table 1. Required software to install Operational Decision Manager (continued)

Required software	Description
WebSphere Application Server Network Deployment V8.5.0.2	WebSphere Application Server Network Deployment is required only if you intend to deploy a sample server or a stand-alone server. WebSphere Application Server Network Deployment is used to run the samples and tutorials and also to install the Event runtime and to use the Event Widgets. Note: To install WebSphere Application Server Network Deployment on Linux and AIX systems, you must set the process resource limits in the /etc/security/limits.conf 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 /etc/security/limits.conf file, and add the following values: <pre>hard nofile 100000 soft nofile 100000</pre>
WebSphere eXtreme Scale V8.6.0	WebSphere eXtreme Scale is required only if you intend to use the Event runtime. WebSphere eXtreme Scale is used to install the Event runtime. You must install WebSphere eXtreme Scale in the directory of WebSphere Application Server.

For more system and software requirements, go to the following support page:

IBM Operational Decision Manager detailed system requirements

Related tasks:

“Installing the product with the sample server” on page 13

The Sample Server installation option installs the IBM Operational Decision Manager product family along with the required software. It also creates a sample server profile on WebSphere Application Server to run the samples and tutorials.

“Installing the product with a stand-alone server” on page 15

You use the stand-alone server installer to install Operational Decision Manager on a single server suitable for development and production purposes.

“Installing a custom configuration” on page 18

You use the Custom installation option to install the required software and select the Operational Decision Manager components and specific features that you want. This option also allows more specific installation configurations, such as the installation in an existing Eclipse environment or IBM product. You can also perform a custom installation using the Installation Manager directly.

Related information:

“Installing the product with Installation Manager” on page 20

If you already installed the required software, you can use Installation Manager to select the specific Operational Decision Manager packages that you want to install.

Installation options

Before you install IBM Operational Decision Manager, consider how you want to use Decision Server and Decision Center, and whether you plan to configure them on an existing production server. You have several installation options from which you can select depending on your needs.

Related tasks:

“Installing the product with the sample server” on page 13

The Sample Server installation option installs the IBM Operational Decision Manager product family along with the required software. It also creates a sample server profile on WebSphere Application Server to run the samples and tutorials.

“Installing the product with a stand-alone server” on page 15

You use the stand-alone server installer to install Operational Decision Manager on a single server suitable for development and production purposes.

“Uninstalling the product” on page 44

To uninstall Operational Decision Manager, you must use the uninstall option of Installation Manager.

Related information:

“Installing the product with Installation Manager” on page 20

If you already installed the required software, you can use Installation Manager to select the specific Operational Decision Manager packages that you want to install.

Overview

The Operational Decision Manager installer offers various installation options to adapt to different server topologies and environments.

There are three installation options from which you can choose:

- Sample server
- Stand-alone server
- Custom installation

The first two options are available from the launchpad only, but you can perform a custom installation either by using the launchpad or Installation Manager.

Use the following table to help you decide which installation option is best tailored to your needs.

Table 2. Installation options

Goal	Installation option
Install the complete and ready-to-use product with no post-installation configuration to test and evaluate the product, and to run the samples and tutorials.	Sample server option from the launchpad. For more information, see “Sample server installation” on page 8 and “Installing the product with the sample server” on page 13.
Install on a ready-to-use stand-alone server suitable for production, with your chosen database, but no samples or tutorials.	Stand-alone server option from the launchpad. For more information, see “Stand-alone server installation” on page 8 and “Installing the product with a stand-alone server” on page 15.
Install only the components that you want.	Custom installation option from the launchpad or Installation Manager. For more information, see “Custom installation” on page 9, “Installing a custom configuration” on page 18, and “Installing the product with Installation Manager” on page 20.
Install on a production server. This installation scenario requires some configuration after the installation of the product.	Custom installation option from the launchpad or Installation Manager. For more information, see “Custom installation” on page 9, “Installing a custom configuration” on page 18, and “Installing the product with Installation Manager” on page 20.
Extend an Eclipse environment.	Custom installation option from the launchpad or Installation Manager. For more information, see “Custom installation” on page 9, “Installing a custom configuration” on page 18, and “Installing the product with Installation Manager” on page 20.
Install in a compatible IBM product.	Custom installation option from the launchpad or Installation Manager. For more information, see “Custom installation” on page 9, “Installing a custom configuration” on page 18, and “Installing the product with Installation Manager” on page 20.

Typical installations

The installer provides predefined configurations and profiles for use on WebSphere Application Server to help you get started with Operational Decision Manager.

You can install these predefined configurations and profiles with the launchpad. There are two typical installation options:

- “Sample server installation”
- “Stand-alone server installation”

When you choose these installation options, the required software is installed for you. For more information, see “Checking the software requirements” on page 4.

Sample server installation

This installation option installs the complete Operational Decision Manager product family, along with the applications and project to run the samples and tutorials.

Sample server is the default option for developing, testing, and running samples and tutorials. This option is not for production use.

The sample server defines a profile on WebSphere Application Server that contains the deployed applications to run the samples and tutorials. You can use the sample server to test and learn the features of Operational Decision Manager. This server includes an embedded Apache Derby database and WebSphere Application Server default messaging as the messaging provider.

The sample server does not require any configuration. The profile is created the first time that you start the sample server after the installation.

Stand-alone server installation

This installation option installs only the Operational Decision Manager components that you select, and configures a single server profile on WebSphere Application Server.

Stand-alone server is the option for development or small-scale production environments.

If you choose the stand-alone server option, Operational Decision Manager is installed on a single stand-alone WebSphere Application Server. This stand-alone server is not configured for clustering.

When you install a stand-alone server by using the launchpad, little or no post-installation configuration is necessary. The server profile is created based on a set of parameters that you enter during the installation procedure. When the installation is complete, the profile is created and configured based on the information that you entered. The stand-alone server profile is configured with the relevant augmentations, and the Operational Decision Manager components, such as the Decision Center consoles, Rule Execution Server, and the Event Widgets are ready to use.

Restriction: The sample and tutorial applications are not available.

During the installation process, you must select an existing database. The supported databases are DB2®, DB2 for z/OS®, Oracle database, Microsoft SQL Server, and Derby Network Server.

For the Event runtime, you must also select the type of messaging service. The options are WebSphere Application Server default messaging or WebSphere MQ.

Related tasks:

“Installing the product with the sample server” on page 13

The Sample Server installation option installs the IBM Operational Decision Manager product family along with the required software. It also creates a sample server profile on WebSphere Application Server to run the samples and tutorials.

“Installing the product with a stand-alone server” on page 15

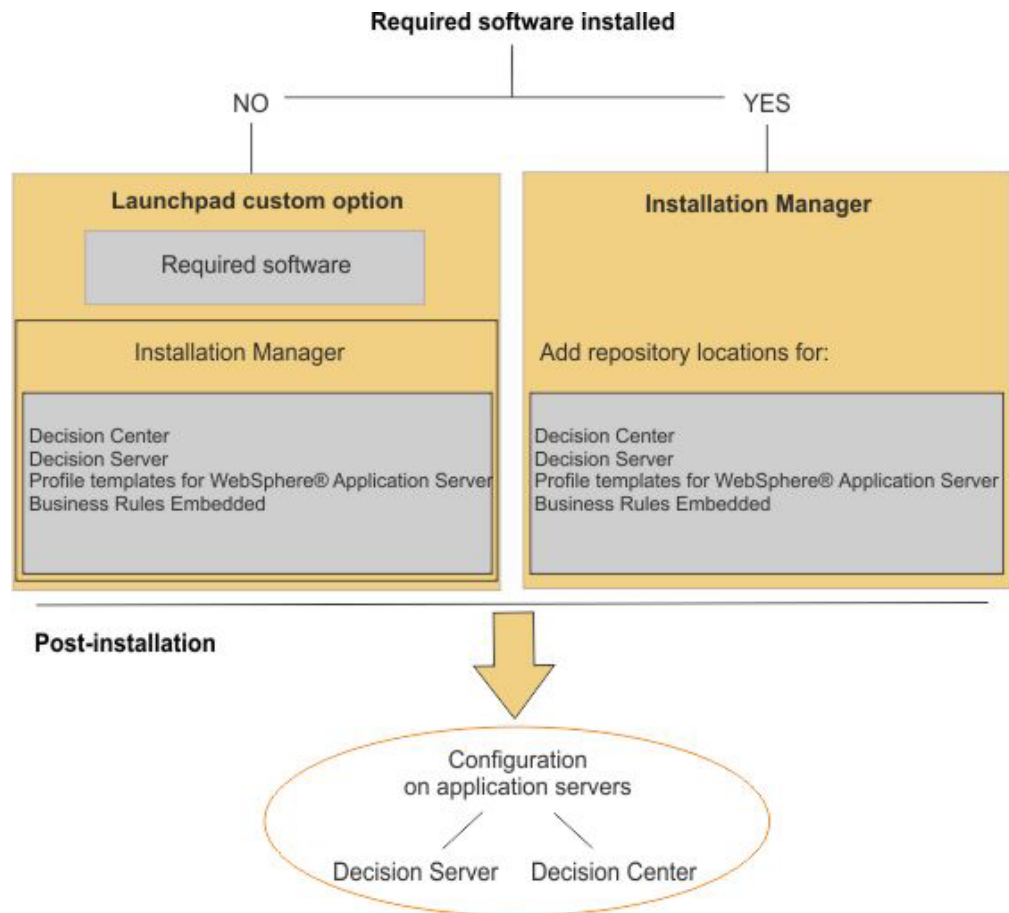
You use the stand-alone server installer to install Operational Decision Manager on a single server suitable for development and production purposes.

Custom installation

You can use either the launchpad or Installation Manager to customize your installation of Operational Decision Manager. For example, you can install only a subset of the Operational Decision Manager components, deploy, and configure these components on WebSphere Application Server to benefit from clustering capabilities, or choose specific installation options.

Certain parts of the product require specific software be installed. If the required software is not already installed, use the launchpad. If the required software is already installed, or if you want to install a part of the product that does not require a specific software, you can use Installation Manager: for example, if you want to install only Rule Designer.

The following figure shows the paths for installing the product by using the launchpad, or by adding the repository locations in the preferences of Installation Manager.



To use Operational Decision Manager in a production environment, you must deploy and configure the archives that correspond to your application server. By using the custom installation option, you can install the archives to deploy and configure Decision Center, Decision Server Rules, and Decision Server Events on WebSphere Application Server.

For Decision Center and Decision Server Rules only, you can also install the applications on other supported application servers, such as Apache Tomcat, JBoss Application Server, Oracle WebLogic Server, or Java SE.

When the installation is complete, go to Configuring to configure Operational Decision Manager for your application server.

Related tasks:

“Installing a custom configuration” on page 18

You use the Custom installation option to install the required software and select the Operational Decision Manager components and specific features that you want. This option also allows more specific installation configurations, such as the installation in an existing Eclipse environment or IBM product. You can also perform a custom installation using the Installation Manager directly.

Related information:

“Installing the product with Installation Manager” on page 20

If you already installed the required software, you can use Installation Manager to select the specific Operational Decision Manager packages that you want to install.

Installing the product with the launchpad

Operational Decision Manager comes with a launchpad that helps you install the product along with the additional required software. The launchpad has three installation options: Sample Server, Stand-alone Server, and Custom Installation.

Related tasks:

“Installing the product with the sample server” on page 13

The Sample Server installation option installs the IBM Operational Decision Manager product family along with the required software. It also creates a sample server profile on WebSphere Application Server to run the samples and tutorials.

“Installing the product with a stand-alone server” on page 15

You use the stand-alone server installer to install Operational Decision Manager on a single server suitable for development and production purposes.

“Installing a custom configuration” on page 18

You use the Custom installation option to install the required software and select the Operational Decision Manager components and specific features that you want. This option also allows more specific installation configurations, such as the installation in an existing Eclipse environment or IBM product. You can also perform a custom installation using the Installation Manager directly.

“Uninstalling the product” on page 44

To uninstall Operational Decision Manager, you must use the uninstall option of Installation Manager.

Related information:

“Installing the product with Installation Manager” on page 20

If you already installed the required software, you can use Installation Manager to select the specific Operational Decision Manager packages that you want to install.

Starting the launchpad

Operational Decision Manager comes with a launchpad that helps you install the product along with the additional required software.

About this task

Each installation disk contains a launchpad executable file. You can start the launchpad from any disk.

A web browser is required to run the launchpad, either Firefox or Internet Explorer.

The user privileges depend on the account that you used to log in to your computer. However, if you install the product by using the launchpad Custom installer, you can choose to install in a shared location for multiple users, or to a single location for a specific user.

You can install Operational Decision Manager either as a regular user or as an administrator.

Tip: On Windows7, the Program Files and Program Files (x86) directories are protected. As a consequence, if you are not installing 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 or Program Files (x86).

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**.

Note: If you want to install the Operational Decision Manager components with a version of Installation Manager that is already installed on your machine, 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 is launched automatically in administrator mode and installs a new version of Installation Manager in addition to the one that is already installed.

- 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, run one of the following executable files:

- On Windows, run `launchpad.exe`, or `launchpad64.exe` for a 64-bit system.

The `launchpad.exe` and `launchpad64.exe` files define the bit size that the launchpad itself runs in. The choice of one or the other does not determine whether you install a 32 or 64-bit Operational Decision Manager, but whether the launchpad is run in 32 or 64-bit mode.

In Custom installation mode, you can select whether you want to install a 32-bit or a 64-bit WebSphere Application Server. In typical modes, the installation is done in the background and chooses the version that matches the operating system.

Note: On Windows 7 right-click the file, and select **Run as Administrator**.

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

What to do next

Select the type of installation that you want to perform: Sample Server, Stand-alone Server, or Custom Installation.

Related tasks:

“Installing the product with the sample server”

The Sample Server installation option installs the IBM Operational Decision Manager product family along with the required software. It also creates a sample server profile on WebSphere Application Server to run the samples and tutorials.

“Installing the product with a stand-alone server” on page 15

You use the stand-alone server installer to install Operational Decision Manager on a single server suitable for development and production purposes.

“Installing a custom configuration” on page 18

You use the Custom installation option to install the required software and select the Operational Decision Manager components and specific features that you want. This option also allows more specific installation configurations, such as the installation in an existing Eclipse environment or IBM product. You can also perform a custom installation using the Installation Manager directly.

Installing the product with the sample server

The Sample Server installation option installs the IBM Operational Decision Manager product family along with the required software. It also creates a sample server profile on WebSphere Application Server to run the samples and tutorials.

About this task

The sample server installation option installs the following Operational Decision Manager components:

- IBM Decision Center
- IBM Decision Server

It installs also the tutorial and sample projects, and the following required software:

- WebSphere Application Server Network Deployment
- WebSphere eXtreme Scale

You can use this component even if you do not have a license for IBM Decision Center. In this case, your usage is limited to run samples and tutorials.

Procedure

To install IBM Operational Decision Manager with the sample server:

1. Start the launchpad.
2. On the Welcome page, select **Sample Server**.
3. Specify the directory where you want to install the product. You can keep the default directory C:\Program Files\IBM\ODM85 or click **Browse** to specify a different location.
4. Enter a user ID and password for logging in to the WebSphere Application Server administration console and other applications such as the Event Widgets. For example:
 - User ID: odmadmin
 - Password: odmadmin

Your user ID and password must not contain any white spaces.

Important:

For security reasons, you must change your password and remove the temporary response files 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_<InstallType>_<TimeStamp>
- On Unix: /tmp/IBM_LaunchPad_<InstallType>_<TimeStamp>

5. If you have an Operational Decision Manager Express license, select the corresponding option.

If you want to upgrade from Operational Decision Manager Express to Operational Decision Manager, you must uninstall the Express version completely from your computer and then reinstall it by using the launchpad or Installation Manager.

6. Click **Next**.

7. Review the license agreement and notices, and select the check box to agree to the terms.

8. At the bottom of the page, click **Install Software**.

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 you get the message: Installation completed successfully. This message indicates that the installation of the required software and Operational Decision Manager is complete.

9. Click **Close**, and then click **Exit**.

10. Click **OK** to confirm that you want to exit the launchpad.

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 the product” on page 44.

Results

When the installation is complete, the following elements are installed on your computer:

- Decision Server Rules: Rule Designer and Rule Execution Server
- Decision Server Events: Event Designer and the event runtime
- Decision Center: Decision Center Business Console and Decision Center Enterprise Console

By default, they are installed in the following directories:

- Operational Decision Manager: <IBM_InstallDir>/ODM85/ODM, where <IBM_InstallDir> refers to your IBM installation directory.
- WebSphere eXtreme Scale and WebSphere Application Server: <IBM_InstallDir>/ODM85/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. For more information, see “Get started with the Sample Server” on page 42.

Related concepts:

“What to do next” on page 42

You might have some configuration work to do post-installation depending on the installation option that you selected.

“Installation options” on page 6

Before you install IBM Operational Decision Manager, consider how you want to use Decision Server and Decision Center, and whether you plan to configure them on an existing production server. You have several installation options from which you can select depending on your needs.

“Installing the product with the launchpad” on page 11

Operational Decision Manager comes with a launchpad that helps you install the product along with the additional required software. The launchpad has three installation options: Sample Server, Stand-alone Server, and Custom Installation.

“Checking the software requirements” on page 4

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

“Typical installations” on page 7

The installer provides predefined configurations and profiles for use on WebSphere Application Server to help you get started with Operational Decision Manager.

Related information:

“Installing the product with Installation Manager” on page 20

If you already installed the required software, you can use Installation Manager to select the specific Operational Decision Manager packages that you want to install.

Installing the product with a stand-alone server

You use the stand-alone server installer to install Operational Decision Manager on a single server suitable for development and production purposes.

Before you begin

To install IBM Operational Decision Manager on a stand-alone server, you must have an existing database. The product supports the following database types for the business rules and event rules repositories:

- IBM DB2 Universal Database™
- IBM DB2 for z/OS
- Microsoft SQL Server
- Oracle
- Derby Network

If you want to use WebSphere MQ as the JMS provider for the event runtime, make sure that you have the WebSphere MQ client installed on your computer, and that you have created the WebSphere MQ resources: queue manager name, host, port, transport type, and channel.

About this task

With the stand-alone server installation option, you can select the components that you want to install:

- Decision Server Rules
- Decision Server Events

- Decision Center

This installation option also installs the following required software:

- WebSphere Application Server
- WebSphere eXtreme Scale

The stand-alone server installer also prompts you to enter a set of parameters to create a single stand-alone server on WebSphere Application Server.

Procedure

To install Operational Decision Manager with a stand-alone server:

1. Start the launchpad.
2. On the Welcome page, select **Stand-alone Server**.
3. Enter the information required to install and configure Decision Center and Decision Server:
 - a. Specify the directory where you want to install the product. You can keep the default installation directory C:\Program Files\IBM\ODM85 or click **Browse** to specify a different location.

Note: On Windows 7, the Program Files and Program Files (x86) directories are protected, therefore if you are not installing the product as an administrator, you might encounter difficulties running certain programs. To avoid this issue, install the product in a directory other than Program Files or Program Files (x86).

- b. Enter a user ID and password for logging into the WebSphere Application Server administration console and all the other applications running on WebSphere Application Server such as Decision Center and the Event Widgets. For example:
 - User ID: odmadmin
 - Password: odmadmin

Your user ID and password must not contain any white spaces.

Important:

For security reasons, you must change your password and remove the temporary response files 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_<InstallType>_<TimeStamp>
 - On Unix: /tmp/IBM_LaunchPad_<InstallType>_<TimeStamp>
- c. Select the components that you want to install and for which you have a license:
 - Decision Server Rules
 - Decision Server Events
 - Decision Center
 - d. Select the method for allocating port values on the stand-alone server:
 - Recommended port values
This option ensures that the port numbers are different from any other installations of WebSphere Application Server on the computer.
 - Default WebSphere Application Server port values

This option uses the standard port numbers. However, you can run only one instance of WebSphere Application Server using these values at a time.

4. Click **Next**.
5. Specify the database to use:
 - a. Select the database type.
 - b. Enter the connection and authentication details for your database.
6. Click **Test Connection** to make sure that the values that you have entered are correct.

Note: You cannot test the connection of a database on Derby Network Server.

7. Click **Next**.
 8. Select the type of messaging to use for internal communications in Decision Server Events:
 - WebSphere Application Server default messaging
 - WebSphere MQ

If you select Websphere MQ, you must manually create the resources and enter the details required.
 9. Click **Next**.
 10. Review the license agreement and notices, select the check box to agree to the terms, and then click **Install Software**.
- The installation runs in the background. At the end of the installation, the script to create the stand-alone server profile is started. Wait until it completes.
- If you cancel the installation before its completion, the files and folders that have already been copied onto your computer are not deleted. You must uninstall the products that the launchpad has already installed with the Installation Manager, and manually delete the remaining files before running the launchpad again. For more information on how to uninstall the product, see “Uninstalling the product” on page 44.

Results

When the installation is complete, the following components are installed on your computer depending on what you have selected:

- Decision Server Rules: Rule Designer and Rule Execution Server
- Decision Server Events: Event Designer and the event runtime
- Decision Center: Decision Center Business Console and Decision Center Enterprise Console.

By default, they are installed in the following directories:

- Operational Decision Manager: `<IBM_InstallDir>/ODM85/ODM`, where `<IBM_InstallDir>` refers to your IBM installation directory.
- WebSphere eXtreme Scale and WebSphere Application Server: `<IBM_InstallDir>/ODM85/WAS/AppServer`, where `<IBM_InstallDir>` refers to your IBM installation directory.

The stand-alone server is configured, and you can start the server using the **Start** menu shortcut. However, if you want to use the events Properties tool and legacy connectors, you must perform additional configuration steps. For more information, see “Get started with the Stand-alone Server” on page 43.

Related concepts:

“What to do next” on page 42

You might have some configuration work to do post-installation depending on the installation option that you selected.

“Installation options” on page 6

Before you install IBM Operational Decision Manager, consider how you want to use Decision Server and Decision Center, and whether you plan to configure them on an existing production server. You have several installation options from which you can select depending on your needs.

“Installing the product with the launchpad” on page 11

Operational Decision Manager comes with a launchpad that helps you install the product along with the additional required software. The launchpad has three installation options: Sample Server, Stand-alone Server, and Custom Installation.

“Checking the software requirements” on page 4

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

“Typical installations” on page 7

The installer provides predefined configurations and profiles for use on WebSphere Application Server to help you get started with Operational Decision Manager.

Related information:

“Installing the product with Installation Manager” on page 20

If you already installed the required software, you can use Installation Manager to select the specific Operational Decision Manager packages that you want to install.

Installing a custom configuration

You use the Custom installation option to install the required software and select the Operational Decision Manager components and specific features that you want. This option also allows more specific installation configurations, such as the installation in an existing Eclipse environment or IBM product. You can also perform a custom installation using the Installation Manager directly.

About this task

The Custom installation option starts the Installation Manager to install Decision Center, Decision Server, Profile templates for WebSphere Application Server, and Business Rules Embedded.

You can indicate the user privileges that you want to apply. For example, you can choose to install the product in a shared location for multiple users.

Use the launchpad to verify that you have the correct versions of the required software installed. If you do not have the required software installed, use the links provided in the launchpad to install them.

Procedure

To perform a custom installation:

1. Start the launchpad.
2. On the **Welcome** page, select **Custom Installation**.
3. Specify the user privileges for the installation of the required software and Operational Decision Manager:

- If you are an administrator or root user and you want to install as an administrative user, keep the default check box **Install in a shared location for multiple users** selected.
- If you are not an administrator or if you want to install to your own user name, clear the check box **Install in a shared location for multiple users**.

Note: You must install WebSphere Application Server and Operational Decision Manager with the same user privileges. For more information, see “User privileges” on page 22.

4. If you do not have Installation Manager installed, click **Install IBM Installation Manager**, and follow the steps in the installation wizard.
5. Click **Install IBM WebSphere Application Server Network Deployment** to run install this software.
 - a. Follow the steps in the installation wizard.

Important: Do not select the option **Sample applications** in the WebSphere Application Server feature tree. This prevents the event runtime from running correctly.

- b. At the end of the installation, do not open the Profile Management Tool. No profile has been created yet.

By default WebSphere Application Server is installed in `<IBM_InstallDir>/WebSphere/AppServer`, where `<IBM_InstallDir>` refers to your IBM installation directory.

6. Click **Install WebSphere eXtreme Scale** to install a supported version of eXtreme Scale using the installation wizard.
 - a. Follow the steps in the installation wizard.
 - b. When prompted to indicate the installation directory, make sure that the path corresponds to your WebSphere Application Server directory. For example, `C:\Program Files\IBM\WebSphere\AppServer`. You must install WebSphere eXtreme Scale in the same directory in which you installed WebSphere Application Server.

You might get a warning on the version of WebSphere Application Server. If you used the version of WebSphere Application Server packaged in the launchpad, you can ignore this warning, and click **Next** to continue the installation.
 - c. At the end of the installation, clear **Launch the Profile Management Tool console**, and then click **Finish**.

7. After installing the required software, click one of these options to install the corresponding component:

Decision Center

An environment for business users to author, manage, and test business rules and event rules.

Decision Server

Development and runtime environments for business rules and business events.

Business Rules Embedded

Development environment for adding business rules functionality to applications. You need an IBM Decision Server license to use this component and Eclipse 3.6 as your development environment.

Profile templates for WebSphere Application Server

Events and rules template profiles and runtime for deploying Decision

Center and Decision Server on WebSphere Application Server. You need an IBM Decision Server license to use this component.

8. If you want to install the four components, click **Install Decision Manager**.

The Installation Manager is launched. For more information, see “Running Installation Manager” on page 25.

Related concepts:

“What to do next” on page 42

You might have some configuration work to do post-installation depending on the installation option that you selected.

“Custom installation” on page 9

You can use either the launchpad or Installation Manager to customize your installation of Operational Decision Manager. For example, you can install only a subset of the Operational Decision Manager components, deploy, and configure these components on WebSphere Application Server to benefit from clustering capabilities, or choose specific installation options.

“Installing the product with the launchpad” on page 11

Operational Decision Manager comes with a launchpad that helps you install the product along with the additional required software. The launchpad has three installation options: Sample Server, Stand-alone Server, and Custom Installation.

“Checking the software requirements” on page 4

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

Related information:

“Installing the product with Installation Manager”

If you already installed the required software, you can use Installation Manager to select the specific Operational Decision Manager packages that you want to install.

Installing the product with Installation Manager

If you already installed the required software, you can use Installation Manager to select the specific Operational Decision Manager packages that you want to install.

Using Installation Manager, you can install only a subset of Operational Decision Manager. You can also customize your installation for specific configurations. For example, you can:

- Extend an existing Eclipse environment
- Install Operational Decision Manager in another compatible IBM product
- Install the archives for configuring an application server other than WebSphere Application Server
- Install the local help system

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

IBM Operational Decision Manager is split into components that correspond to installable units:

IBM Decision Center

An environment for business users to author, manage, and test business rules and event rules.

IBM Decision Server

Development and runtime environments for business rules and business events.

Profile templates for WebSphere Application Server

Events and rules template profiles and runtime for deploying Decision Center and Decision Server on WebSphere Application Server. You need an IBM Decision Server license to use this component.

Business Rules Embedded

Development environment for adding business rules functionality to applications. You need an IBM Decision Server license to use this component and Eclipse 3.6 as your development environment.

To install the Operational Decision Manager components, Installation Manager must access the corresponding repositories. When you use the product launchpad, the path to these repositories is set automatically in the Installation Manager preferences. If you are not using the launchpad, you must specify the repository URLs in Installation Manager.

After you complete the installation of the products with Installation Manager, you have to configure Decision Center and Decision Server to use Operational Decision Manager in production.

Related concepts:

“Installation options” on page 6

Before you install IBM Operational Decision Manager, consider how you want to use Decision Server and Decision Center, and whether you plan to configure them on an existing production server. You have several installation options from which you can select depending on your needs.

“Installing the product with the launchpad” on page 11

Operational Decision Manager comes with a launchpad that helps you install the product along with the additional required software. The launchpad has three installation options: Sample Server, Stand-alone Server, and Custom Installation.

“Checking the software requirements” on page 4

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

“Custom installation” on page 9

You can use either the launchpad or Installation Manager to customize your installation of Operational Decision Manager. For example, you can install only a subset of the Operational Decision Manager components, deploy, and configure these components on WebSphere Application Server to benefit from clustering capabilities, or choose specific installation options.

“Upgrading Operational Decision Manager Express to Operational Decision Manager” on page 3

Related tasks:

“Installing the product with the sample server” on page 13

The Sample Server installation option installs the IBM Operational Decision Manager product family along with the required software. It also creates a sample server profile on WebSphere Application Server to run the samples and tutorials.

“Installing the product with a stand-alone server” on page 15

You use the stand-alone server installer to install Operational Decision Manager on a single server suitable for development and production purposes.

“Installing a custom configuration” on page 18

You use the Custom installation option to install the required software and select the Operational Decision Manager components and specific features that you want. This option also allows more specific installation configurations, such as the installation in an existing Eclipse environment or IBM product. You can also perform a custom installation using the Installation Manager directly.

“Uninstalling the product” on page 44

To uninstall Operational Decision Manager, you must use the uninstall option of Installation Manager.

Installation Manager overview

You use IBM Installation Manager to install and maintain IBM products.

To use Installation Manager, you must choose the user privileges to perform your installation and understand what each role involves. You must also be aware of a few concepts such as package groups, the shared directory, and the Eclipse languages.

User privileges

You can install Operational Decision Manager as an administrative user (root) or as a nonadministrative user (nonroot).

You must use the same user to install the required software, for example you must install Operational Decision Manager and WebSphere Application Server using the same user.

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

Administrator user

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 user

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

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.

Note:

The group mode is not supported on Windows.

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

Package groups and the shared directory

Installation Manager always installs Operational Decision Manager 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” on page 24.

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 and Event Designer features. For more information, see “Installing Operational Decision Manager in a compatible IBM product” on page 27.

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 Operational Decision Manager.

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 27

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 preferences

If you install the product directly from Installation Manager without going through the launchpad, you must specify the directories of the installers in the preferences.

Procedure

1. Start Installation Manager from the Windows **Start** menu or from a command line.
2. Click **File > Preferences** and specify the repository locations as follows:
 - Decision Center: <extractionDir>/disk3/WDC
 - Decision Server: <extractionDir>/disk2/WDS
 - Profile templates for WebSphere Application Server: <extractionDir>/disk2/OW
 - Business Rules Embedded: <extractionDir>/disk2/ER

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

For more information on how to set repository locations, see Repository preferences in the Installation Manager information center.

Related tasks:

“Running Installation Manager”

You use Installation Manager to install one or more Operational Decision Manager components on your computer. You can start it directly, or through the launchpad if you have to install first the required software.

Running Installation Manager

You use Installation Manager to install one or more Operational Decision Manager components on your computer. You can start it directly, or through the launchpad if you have to install first the required software.

About this task

If you are installing the product from the **Custom installation** option of the launchpad, the paths to the repository locations of the various Operational Decision Manager components are automatically set in the Installation Manager preferences.

If you are using Installation Manager directly, make sure that you specify the repository locations. For more information, see “Setting up Installation Manager preferences” on page 24.

Procedure

To install Operational Decision Manager with Installation Manager:

1. On the Install Packages page, select Decision Center Decision Server, Business Rules Embedded, and Profile templates for WebSphere Application Server, then click **Next**.

Depending on your needs, you can install one or all of the packages on the same computer. For more details on the features included in each package, see “Selecting the features to install” on page 29.

Note: You must have both Decision Center and Decision Server installed to run the Decision Center samples and to perform the complete scenario for the Getting Started tutorials.

2. Review the license agreements for the selected packages, click **I accept the terms of the license agreements**, and then click **Next**.
3. Optional: Click **Next** to accept the default path for the shared resources directory. Perform this step if Operational Decision Manager is the first product that you install with Installation Manager.

For more information see, “Package groups and the shared directory” on page 23.

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 ODM85 (For example, C:\Program Files\IBM\ODM85 on Windows XP), and the name of the package group is IBM Operational Decision Manager.
 - b. Click **Next** to continue.

For more information see, “Package groups and the shared directory” on page 23 and “Installing Operational Decision Manager in a compatible IBM product” on page 27.

5. To install a new instance of Eclipse, leave the page empty, do not select any directory, and click **Next** to continue.

Installation Manager installs a new instance of Eclipse at the root of the package group directory.

If you already have Eclipse installed and you want to use your installation of Eclipse, see “Installing the product in an existing Eclipse environment” on page 28.

6. On the Translations page, select the languages to install for this package, and then click **Next**.

For more information, see “Languages” on page 24.

7. Select the product features that you want to install, and then click **Next**.

A set of features is already selected by default. For more information on the features, see “Selecting the features to install” on page 29.

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 7.0.1.

9. Select **Server Security**, and enter a user ID and password for the sample server profile on WebSphere Application Server, and then click **Next**. For example:

- User ID: odmadmin
- Password: odmadmin

Your user ID and password must not contain any white spaces.

Important:

For security reasons, you must change your password and remove the temporary response files 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_<InstallType>_<TimeStamp>`
- On Unix: `/tmp/IBM_LaunchPad_<InstallType>_<TimeStamp>`

After completing the installation of Operational Decision Manager, 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. Optional: Select **IBM Operational Decision Manager Express** if you have the corresponding license, and check the **Install** option.

If you want to upgrade from Operational Decision Manager Express to Operational Decision Manager, you cannot use the **Modify packages** option. You must uninstall the Express version completely from your computer and then reinstall it by using the launchpad or Installation Manager.

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

By default, the product is installed in <IBM_InstallDir>/ODM85, where <IBM_InstallDir> refers to your IBM installation directory.

The products and features that are installed depend on what you selected in Installation Manager, see “Checking your installation” on page 40.

What to do next

To find out what your next steps are and how to get started with your installation, see “What to do next” on page 42.

Related concepts:

“Troubleshooting the installation” on page 41

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

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 Integration Designer
- 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 23

Installation Manager always installs Operational Decision Manager 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 (version 3.6.2.4). However, if you already have a supported version of Eclipse, you can choose to extend it.

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 3.6 with the following up-to-date plug-ins:

- Graphical Editing Framework (GEF) 3.6
- Eclipse Modeling Framework (EMF) 2.6
- Business Intelligence and Reporting Tools (BIRT) 2.6
- Data Tools Platform (DTP) 1.8
- Web Tools Platform (WTP) 3.2
- XSD 2.6

These plug-ins are automatically added as dependencies.

In addition, be sure to install the appropriate patch level. For more information about obtaining the right level of patch, see the technical notes: Operational Decision Manager V8.5 Known Limitations.

Procedure

1. Start Eclipse and click **Help > Check for updates**.
2. Click **Next**.
3. Review the items to be updated and click **Next**.
4. Review the license terms, and select **I accept the terms of the license agreement**.
5. Click **Finish** to install the required components.
6. Click **Restart Now** if you are prompted to restart Eclipse.

Extending an existing Eclipse

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.

Selecting the features to 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”
- “Decision Server features” on page 31
- “Profile templates for WebSphere Application Server” on page 34
- “Business Rules Embedded” on page 34

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	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. 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 V8.0 only.

Table 3. Decision Center features (continued)

Feature	Description
Decision Center: Installation artifacts for other application servers > Decision Center for Tomcat	Provides the archives to deploy and configure Decision Center on Tomcat. The archives are copied to <InstallDir>/teamserver/applicationservers/tomcat. For more information, see Configuring.
Decision Center: Installation artifacts for other application servers > Decision Center for JBoss	Provides the archives to deploy and configure Decision Center on JBoss. The archives are copied to <InstallDir>/teamserver/applicationservers/JBoss. For more information, see Configuring.
Decision Center: Installation artifacts for other application servers > Decision Center for WebLogic	Provides the archives to deploy and configure Decision Center on WebLogic. The archives are copied to <InstallDir>/teamserver/applicationservers/WebLogic. For more information, see Configuring.
Decision Center > Event Widgets for Decision Center	By using the Event Capture widget and the Event Replay widget, you can capture events from a production system, and replay a sequence of events, typically on a test system. Event Charting widgets include the Event Chart Manager widget to create and edit charts, the Event Chart widget to view charts as well as real-time charts, which display the history for events, actions, and filters. 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. For more information, see Monitoring business event processing using the chart widgets
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 40

Table 3. Decision Center features (continued)

Feature	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.
Local help system	By default this feature is not selected because the help system points to the online information center. You can select the Local help system option if you prefer accessing the help contents locally. To use the local help system, you need an Internet connection only the first time to download the help contents from the web. After you download the help contents, you must set up the local help. 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. Decision Server features

Feature	Description
Decision Server Rules	
Rule Designer	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.
Rule Designer > Scorecard Modeler	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.

Table 4. Decision Server features (continued)

Feature	Description
Rule Execution Server	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. 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. Select the type of license that you have: Non-production license Select this option if you want to use the product for development purposes. This license can be deployed only as part of development and test environment for internal non-production activities. Production license Select this option if you want to use the product for production.
Rule Execution Server: Installation artifacts for other application servers > Rule Execution Server for Tomcat	Provides the archives to deploy and configure Rule Execution Server on Tomcat. The archives are copied to <InstallDir>/executionserver/applicationserver/tomcat. For more information on how to use the archives to deploy and configure Rule Execution Server, see Configuring Rule Execution Server.
Rule Execution Server: Installation artifacts for other application servers > Rule Execution Server for JBoss	Provides the archives to deploy and configure Rule Execution Server on JBoss. The archives are copied to <InstallDir>/executionserver/applicationserver/JBoss. For more information on how to use the archives to deploy and configure Rule Execution Server, see Configuring Rule Execution Server.
Rule Execution Server: Installation artifacts for other application servers > Rule Execution Server for WebLogic	Provides the archives to deploy and configure Rule Execution Server on WebLogic. The archives are copied to <InstallDir>/executionserver/applicationserver/WebLogic. For more information on how to use the archives to deploy and configure Rule Execution Server, see Configuring Rule Execution Server.

Table 4. Decision Server features (continued)

Feature	Description
Decision Server Events	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	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. Select the type of license that you have: Non-production license Select this option if you want to use the product for development purposes. This license can be deployed only as part of development and test environment for internal non-production activities. Production license Select this option if you want to use the product for production.
Runtime > Event Tester Enabler	If Event Tester Enabler is selected, then the Event Tester widget is available.
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	By using the Event Capture widget and the Event Replay widget, you can capture events from a production system, and replay a sequence of events, typically on a test system. 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. For more information, see Monitoring business event processing using the chart widgets.
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.
Shared components	

Table 4. Decision Server features (continued)

Feature	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.
Update sites for installation into other Eclipse products	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 alternate way of installing the Designer plug-ins into a supported Eclipse after the installation of Operational Decision Manager. For more information, see Extending Eclipse with the Rule Designer update sites.
Local help system	By default this feature is not selected because the help system points to the online information center. You can select the Local help system option if you prefer accessing the help contents locally. To use the local help system, you need an Internet connection only the first time to download the help contents from the web. After you download the help contents, you must set up the local help. 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.

Profile templates for WebSphere Application Server

This component contains 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.

Installing in silent mode

In some cases, Operational Decision Manager has to be installed within a specific configuration on multiple computers. You can install the product components by running Installation Manager in silent installation mode to automate the process, and deploy the products to multiple systems.

You perform a silent installation by running Installation Manager with response files that correspond to the products that you want to install. Template response files are provided with the installer to help you perform a silent installation.

Installing Installation Manager silently

You can install Installation Manager silently with the Installation Manager installer, and then use it to install silently the product packages.

About this task

In silent mode, there is no interaction with the Installation Manager user interface.

Operational Decision Manager is bundled with Installation Manager version 1.6.2. Installation Manager version 1.6.0 or later is required to install the Operational Decision Manager products.

Procedure

To install Installation Manager silently:

1. Go to the location where you extracted the Operational Decision Manager installation disks and go to: `diskX\IM\`.
The IM directory is available from any disk. If you use Linux 64-bit, the directory is IM64.
2. Go to the directory `diskX\responsefiles`.
The `responsefiles` directory is available from any disk.
3. In the file `IM_Silent.xml`, replace `!IM_REPOSITORY!` with the path to the directory where the Installation Manager installer is located. A typical value is:
`<install_root>\diskX\IM`.
4. Run one of the following commands:
 - If you are an administrator:
`installc <path_to_silent_file>\IM_Silent.xml -acceptlicense`
 - If you are not an administrator:
`userinstc <path_to_silent_file>\IM_Silent.xml -acceptlicense`

Setting the response file for required software

WebSphere Application Server and WebSphere eXtreme Scale are prerequisites to the installation of the other Operational Decision Manager packages. WebSphere eXtreme Scale is required if you want to install Decision Server Events. You can install them silently using the provided response files.

About this task

Installation Manager uses response files to run the installation in silent mode. The following procedure explains how to set up the provided response files to run a silent installation for WebSphere Application Server and WebSphere eXtreme Scale.

Procedure

Setting up the response file for WebSphere Application Server

1. Go to the location where you extracted the Operational Decision Manager installation disks and go to: diskX\responsefiles.
Response files are available on any disk.
2. In the file Prerequisites_WAS_Silent.xml, replace !WAS_REPOSITORY! with the path where the WebSphere Application Server installer is located. For example: <install_root>\disk1\WAS.
3. Replace the variable !WAS_PROFILE_ID! by any string. This value is used internally by Installation Manager to give a name to the WebSphere Application Server installation profile.
4. Replace the variable !WAS_HOME! by the path to the directory where you want to install WebSphere Application Server. For example: c:\Program Files\IBM\WAS.
5. If you want to install WebSphere Application Server in 64-bit mode, replace the variable !BIT_64! by the value indicated in the file . Otherwise, delete this line.
6. Replace the variable !WAS_SDK_FEATURE_BIT_32_OR_64! by the value com.ibm.sdk.6_32 or com.ibm.sdk.6_64 depending on whether you want to install a 32-bit or a 64-bit WebSphere Application Server.

Setting up the response file for WebSphere eXtreme Scale

7. Go to the location where you extracted the Operational Decision Manager installation disks and go to: diskX\responsefiles.
Response files are available on any disk.
8. Set the value of -OPT installLocation in the file wxssetup.response.xml to indicate the path to the directory where WebSphere Application Server is installed. For example: c:\Program Files\IBM\WAS.

Setting the response file for Decision Server and Decision Center

In the same way as you have set up a response file for WebSphere Application Server and WebSphere eXtreme Scale, you can configure a response file for the silent installation of the Operational Decision Manager packages: Decision Center and Decision Server.

About this task

Installation Manager uses response files to run the installation in silent mode. The following procedure explains how to set up the provided response files to run a silent install for Decision Center and Decision Server.

Procedure

1. Go to the location where you extracted the Operational Decision Manager installation disks and go to: diskX\responsefiles.
Response files are available on any disk.
2. In the file WODM_Silent.xml, replace !WDC_REPOSITORY! and !WDS_REPOSITORY! with the path where the Decision Center and Decision Server installers are located.
For example: <install_root>\disk3\WDC for Decision Center, and <install_root>\disk2\WDS for Decision Server.

3. Replace the variable !WODM_PROFILE_ID! by the value used internally by Installation Manager to give a name to the Operational Decision Manager installation profile: Operational Decision Manager V8.5.

This profile corresponds to the Installation Manager profile, not to the WebSphere Application Server profile.

4. Replace the variable !WODM_HOME! by the path to the directory where you want to install Operational Decision Manager. For example, c:\Program Files\IBM\ODM85.
5. Replace the variables !ADMIN_USERNAME! and !ADMIN_PASSWORD! by the username and password required by WebSphere Application Server for security purposes.
6. Replace the variables !WODM_FEATURES_DECISION_CENTER!, !WODM_FEATURES_DECISION_SERVER_RULES!, and !WODM_FEATURES_DECISION_SERVER_EVENTS! with a comma-separated list of the features that you want to install.

The following table provides a complete lists of all the features available. For a detailed description of these features, see “Selecting the features to install” on page 29.

Table 5. List of features to install

Product	List of features
Decision Center	• jdk • base • Decision Center • Rule Solutions for Office • com.ibm.wdc.rules.samples.feature • com.ibm.wbdm.dts.tomcat.feature • com.ibm.wbdm.dts.jboss.feature • com.ibm.wbdm.dts.weblogic.feature • com.ibm.wdc.event.widgets.feature
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Table 5. List of features to install (continued)

Product	List of features
Decision Server Events	- com.ibm.wds.jdk.feature - base - com.ibm.wds.updatesites.feature - com.ibm.wds.studio.events.feature - com.ibm.wds.events.runtime.feature - com.ibm.wds.events.connectors.feature - com.ibm.wds.events.integration.feature - com.ibm.wds.events.propertiesui.feature - com.ibm.wds.event.widgets.feature - com.ibm.wds.events.testers.feature

Setting the response file for Profile templates for WebSphere Application Server

If Decision Center and Decision Server are to be deployed on WebSphere Application Server, you can set up a response file to install the corresponding profile templates and runtime silently.

About this task

Installation Manager uses response files to run the installation in silent mode. The following procedure explains how to set up the provided response files to run a silent install for Profile templates for WebSphere Application Server.

Procedure

1. Go to the location where you extracted the Operational Decision Manager installation disks and go to: diskX\responsefiles.
Response files are available on any disk.
2. In the file OW_Silent.xml, replace !OW_REPOSITORY! with the path where the Profile templates for WebSphere Application Server installer is located. For example: <install_root>\disk1\OW.
3. Replace the variable !WODM_PROFILE_ID! by the value used internally by Installation Manager to give a name to the Operational Decision Manager installation profile: Operational Decision Manager V8.5.

This profile corresponds to the Installation Manager profile, not to the WebSphere Application Server profile.

Installing Operational Decision Manager silently

After all the response files are set up, you can start a silent installation.

About this task

The following procedure explains how to perform a silent installation of Operational Decision Manager with Installation Manager. The installation must be performed in the shown order.

Procedure

1. To install Installation Manager:
 - If you are an administrator, type:
`installc <path_to_silent_file>\IM_Silent.xml -acceptlicense`
 - If you are not an administrator, type:
`userinstc <path_to_silent_file>\IM_Silent.xml -acceptlicense`
2. To install WebSphere Application Server:
 - **On Windows systems:**
 - a. Go to the directory where you have installed Installation Manager.
 - b. Go to the directory `eclipse\tools`.
 - c. Type the command `imcl.exe input <path_to_response_file>\Prerequisites_Silent.xml -acceptLicense`.
 - **On Unix systems:**
 - a. Go to the directory where you have installed Installation Manager.
 - b. Go to the directory `eclipse/tools`.
 - c. Type the command `./imcl input <path_to_response_file>/Prerequisites_Silent.xml -acceptLicense`.
3. To install WebSphere eXtreme Scale:
 - **On Windows systems:**
 - a. Go to the directory `<install_root>\WXS`.
 - b. Type the command:
`install.bat -options "<path_to_response_file>\wxssetup.response" -silent`
 - **On Unix systems:**
 - a. Go to the directory `<install_root>\WXS`.
 - b. Type the command:
`./install -options "<path_to_response_file>/wxssetup.response" -silent`
4. To install the Operational Decision Manager components:
 - **On Windows systems:**
 - a. Go to the directory where you have installed Installation Manager.
 - b. Go to the directory `eclipse\tools`.
 - c. Type the command:
`imcl.exe input <path_to_response_file>\WODM_Silent.xml -acceptLicense`
 - **On Unix systems:**
 - a. Go to the directory where you have installed Installation Manager.
 - b. Go to the directory `eclipse/tools`.
 - c. Type the command:
`./imcl input <path_to_response_file>/WODM_Silent.xml -acceptLicense`
5. To install Profile templates for WebSphere Application Server:
 - **On Windows systems:**
 - a. Go to the directory where you have installed Installation Manager.
 - b. Go to the directory `eclipse\tools`.
 - c. Type the command:
`imcl.exe input <path_to_response_file>\OW_Silent.xml -acceptLicense`

- **On Unix systems:**
 - a. Go to the directory where you have installed Installation Manager.
 - b. Go to the directory `eclipse/tools`.
 - c. Type the command:
`./imcl input <path_to_response_file>/OW_Silent.xml -acceptLicense`

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 “Selecting the features to install” on page 29.

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.

Checking your installation

After you have finished 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\ODM85`. Use the table below to help you identify the Operational Decision Manager features that are installed on your computer:

Table 6. Component-folder mapping

Component	Folders
Decision Server Rules	
Rule Designer	studio
Rule Execution Server	executionserver
Getting started tutorials	gettingstarted
Sample server	shared/sampleServer
.NET engine and migration tool	dotnet
Decision Server Events	
Event Designer	connectors, runtime

Table 6. Component-folder mapping (continued)

Component	Folders
Decision Center	teamserver, Rule Solutions for Office (optional)
Business Rules Embedded	rules-sdk

If you have installed the component Profile templates for WebSphere Application Server, the corresponding folders are located in these directories:

<WAS_InstallDir>/profileTemplates/rules for rules profiles.

<WAS_InstallDir>/profileTemplates/wbe for events profiles.

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\settings\logs
 - UNIX: /var/ibm/InstallationManager/logs

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

- **Launchpad:**
 - Windows: %TEMP%\IBM_LaunchPad_<InstallType>\
 - %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_<InstallType>/

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 8.5

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 (1.6).
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
```

What to do next

You might have some configuration work to do post-installation depending on the installation option that you selected.

- Sample server installation: No configuration is required to develop, test, and run the tutorials and samples. See “Get started with the Sample Server.”
- Stand-alone Server installation: No configuration is required except for certain Event features. See “Get started with the Stand-alone Server” on page 43.
- Custom installation: To use your rules empowered applications, you must configure the Operational Decision Manager applications on a production server. See “Use your application in production” on page 43.

Get started with the Sample Server

The first time that you start the sample server, a profile (ODMSample) is configured on WebSphere Application Server Network Deployment to run the included samples and tutorials. You can start the sample server with the **Start** menu shortcut.

On 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 during installation. The default package group is Operational Decision Manager V8.5.

The profile creation takes several minutes to complete. Wait until the build completes successfully.

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 Getting started tutorials and Product 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. SSO allows users to 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 using the credentials that you entered at installation time.

Get started with the Stand-alone Server

Before you start the stand-alone server for the first time, make sure that you create your database schema both for Rule Execution Server and Decision Center. For instructions, go to Creating the database schema by running SQL scripts, and Creating the schema using a step-by-step sequence.

To start the stand-alone server, choose **All Programs > IBM > *package_group* > Stand-alone Server > Start server**.

package_group refers to the package group specified in IBM Installation Manager during installation. The default package group is Operational Decision Manager V8.5.

Important: To use the Events Properties tool (*propertiesui*) and legacy connectors (email and ftp), you must perform some additional configuration steps. For more information, see Customizing the event runtime environment including Editing the *setenv* file and Configuring multiple Decision Server Events profiles to coexist.

Use your application in production

Rule Designer and Event Designer are installed and you can start designing your application in Decision Server.

Depending on your company's needs and on the products of Operational Decision Manager that you want to use, some configuration is required:

- To execute your rule-based application, see Configuring Rule Execution Server.
- To execute your application with event processing, see Configuring Decision Server Events.
- For business users to edit and test rules in Decision Center, see Configuring.

To get a better understanding of the development lifecycle with Operational Decision Manager, see Business rule application development.

Related tasks:

“Installing the product with the sample server” on page 13

The Sample Server installation option installs the IBM Operational Decision Manager product family along with the required software. It also creates a sample server profile on WebSphere Application Server to run the samples and tutorials.

Uninstalling the product

To uninstall Operational Decision Manager, you must use the uninstall option of Installation Manager.

Before you begin

Make sure that you stopped all the applications that run with the product, including the server, any instance of Rule Designer or Event Designer, and the local help process if enabled.

To uninstall the packages, you must log in to the system with the same user account that you used to install the product packages. Make sure that you are using the correct instance of Installation Manager to uninstall the product:

- If you installed the products as an administrator, you must uninstall it by using the administrator instance of Installation Manager, which is accessible through the **IBM Installation Manager** start menu shortcut.
- If you installed the products as a nonadministrator user, you must uninstall it by using the non-administrator instance of Installation Manager, which is accessible through the **My IBM Installation Manager** start menu shortcut.

To be able to uninstall WebSphere Application Server and WebSphere eXtreme Scale properly, you must delete the ODMSample8500 profiles manually first. These profiles are created when you install the product by using the Sample server installation option of the launchpad. For more information, see [Deleting profiles](#).

A package cannot be uninstalled when another package has a dependency on it, unless the dependent package is also selected to be uninstalled.

Procedure

1. Close the programs that you installed with Installation Manager.
2. Launch Installation Manager from the **Start** menu.
3. Select the components that you want to uninstall, then click **Next** and **Uninstall**.

Related concepts:

“Upgrading Operational Decision Manager Express to Operational Decision Manager” on page 3

“Installation options” on page 6

Before you install IBM Operational Decision Manager, consider how you want to use Decision Server and Decision Center, and whether you plan to configure them on an existing production server. You have several installation options from which you can select depending on your needs.

“Installing the product with the launchpad” on page 11

Operational Decision Manager comes with a launchpad that helps you install the product along with the additional required software. The launchpad has three installation options: Sample Server, Stand-alone Server, and Custom Installation.

Related information:

“Installing the product with Installation Manager” on page 20

If you already installed the required software, you can use Installation Manager to select the specific Operational Decision Manager packages that you want to install.

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