

IBM Maximo Asset Management Scheduler Plus
Version 7 Release 6

Installation Guide



Note

Before using this information and the product it supports, read the information in "Notices" on page 15.

This edition applies to version 7, release 6, modification 7 of IBM Maximo Asset Management Scheduler Plus and to all subsequent releases and modifications until otherwise indicated in new editions.

© **Copyright IBM Corporation 2008, 2017.**

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Contents

Installing Maximo Asset Management

Scheduler Plus. 1

Planning to deploy IBM Maximo Asset Management Scheduler Plus.	1
System requirements for Maximo Asset Management Scheduler Plus	1
Installing Maximo Asset Management Scheduler Plus	1
Installing and configuring IBM Decision Optimization Center (Optional)	3
Configuring IBM Decision Optimization on Cloud	4
Automatically updating the database and building and deploying the EAR file	4
Manually building and deploying the EAR files	5
Updating the database and building the EAR file.	5
Deploying the EAR file on WebSphere Application Server	5

Deploying the EAR files on Oracle WebLogic Server	6
Installing Maximo Asset Management Scheduler Plus silently	7
Optimization server configuration	8
Weather data configuration for IBM Maximo Asset Management Scheduler Plus	9
Installing help locally	9
Installing help	9
IBM Knowledge Center configuration	10
Help components	11
Maximo Asset Management documentation library	12

Notices 15

Trademarks	17
Terms and conditions for product documentation.	17

Installing Maximo Asset Management Scheduler Plus

The installation of Maximo® Asset Management Scheduler Plus involves running an installation program and a configuration program, both of which are started from the launchpad.

Planning to deploy IBM Maximo Asset Management Scheduler Plus

IBM® Maximo Asset Management Scheduler Plus 7.6.7 must be installed with IBM Maximo Asset Management 7.6.0.9. Your environment can also include IBM Maximo Asset Management Multitenancy 7.6.0.9.

System requirements for Maximo Asset Management Scheduler Plus

Before you install Maximo Asset Management Scheduler Plus or Maximo Asset Management Scheduler Plus Plus, your environment must meet all of the hardware and software requirements.

A complete list of hardware and software requirements is available in the System Requirements section of the Maximo Asset Management wiki.

The user who is installing Maximo Asset Management Scheduler Plus or Maximo Asset Management Scheduler Plus Plus must have administrative user rights.

When the installation program is run, it requires access to the middleware servers that are installed with Maximo Asset Management. Ensure that you have the administrative user IDs and passwords for the application server, the database server, and the directory server.


Enterprise system

You install Maximo Asset Management Scheduler Plus or Maximo Asset Management Scheduler Plus Plus 7.6.7 on the administrative workstation where Maximo Asset Management 7.6.0.9 is installed.

Maximo Asset Management Multitenancy

Maximo Asset Management Scheduler Plus 7.6.7 can be installed with Maximo Asset Management Multitenancy 7.6.0.9, and Maximo Asset Management Scheduler Plus is enabled for all tenants except the system provider tenant.

Related information:

 [Maximo Asset Management system requirements wiki](#)
[Multitenancy information for Maximo Asset Management Scheduler](#)

Installing Maximo Asset Management Scheduler Plus

You must install Maximo Asset Management Scheduler Plus on the administrative workstation and in the same directory where Maximo Asset Management is installed.

Before you begin

Ensure that IBM Maximo Asset Management 7.6.0.9 is installed on the computer where you are installing Maximo Asset Management Scheduler Plus 7.6.7.

For more information, see the installation topics for Maximo Asset Management 7.6.0.9 IBM Knowledge Center (www.ibm.com/support/knowledgecenter/SSLKT6_7.6.0/com.ibm.mam.doc/mam_install/c_ctr_plan_install.html).

For information about upgrading to Maximo Asset Management 7.6.0.9 from an earlier version of Maximo Asset Management, see the Maximo Upgrade Resources website.

About this task

The configuration tool is launched automatically when the installation wizard is complete. It is called IBM Tivoli®'s process automation engine configuration tool.

After you are done using the configuration tool, the Maximo Asset Management Scheduler Plus application starts automatically.

Procedure

1. Download the Maximo Asset Management Scheduler Plus product software from IBM Passport Advantage® and extract the installation image to a local directory.
2. Start the launchpad by double-clicking the launchpad file.

Option	Description
Windows	launchpad64.exe
UNIX or Linux	launchpad.sh

3. On the Install IBM Maximo Asset Configuration Manager pane, click **Install**.
4. Depending on the package that you are installing, you might be required to click **Install** or **Update** and click **Next**.
5. After you accept the terms in the license agreement, select the option to use the existing package group **IBM Tivoli's automation suite**.
6. Complete the installation wizard.
7. In the configuration tool, select **Update the database with the UpdateDB Lite feature**.
8. Verify the application version and current state.
9. To complete the deployment, run both the pre-processing and post-processing options, and click **Finish**.
10. When the installation is complete, verify that the Maximo Asset Management Scheduler Plus component was installed. Log in to Maximo Asset Management Scheduler Plus and view the system information from the **Help** menu.

What to do next

When the installation and configuration steps are complete, you can configure Maximo Asset Management Scheduler Plus to meet your business needs.

Installing and configuring IBM Decision Optimization Center (Optional)

After you install Maximo Asset Management Scheduler Plus 7.6.7, you can also configure IBM Decision Optimization Center 3.9.

Before you begin

Use IBM® Passport Advantage® to download IBM Decision Optimization Center 3.9. Maximo Asset Management Scheduler Plus 7.6.7 must be installed before you can configure IBM Decision Optimization Center 3.9.

About this task

IBM Decision Optimization Center 3.9 is an optional component that can analyze proposed activity schedules that are developed in Maximo Asset Management Scheduler Plus, and then produce information for optimizing the schedule.

IBM Decision Optimization Center Server files must be copied from the Maximo Asset Management administrative workstation to the system that is hosting WebSphere® Application Server Network Deployment.

IBM Decision Optimization Center Server must be configured on an application server instance that is independent of the application server instance that is hosting Maximo Asset Management.

Procedure

1. Log on to the Maximo Asset Management administrative workstation.
2. Change directory to *install_home*\solutions\odme. For example, c:\IBM\SMP\solutions\odme. The odme directory contains install files for the IBM Decision Optimization Center Optimization Server and Data Server 3.9 files that are for each supported operating system.
3. Copy the appropriate ODM Enterprise Optimization Server and Data Server install files from the Maximo Asset Management administrative workstation to the system that is hosting WebSphere Application Server Network Deployment that is used for optimization. For example, if WebSphere Application Server Network Deployment is hosted on a Linux system, copy the 3.9.0-WS-DOC-servers-linux-x64.zip file to the WebSphere Application Server Network Deployment server.
4. Install and configure the IBM Decision Optimization Center Optimization Server and Data Server components. For detailed information, refer to the Installation guide for WebSphere Application Server section of the IBM Decision Optimization Center Optimization Server and Data Server Installation Guide.
5. Ensure that the optimization server components are protected by requiring users to authenticate. Security can be configured in various ways supported by WebSphere Application Server. For example, it can be configured using an LDAP directory server. For detailed information, refer to the Default security configuration on WAS documentation.

What to do next

After installing the IBM Decision Optimization Center Optimization Server and Data Server, configure the Maximo Asset Management administrator username and password to connect to the optimization server (for submitting jobs, deploying

optimization applications, etc.). In the Maximo Asset Management System Properties application, enter your DOC server user name and password in the following system properties:

- mxeskd.optimization.adminuser
- mxeskd.optimization.adminpassword

The communication between IBM Decision Optimization Center and Maximo Asset Management is performed over an SSL-secured https connection. Enable the

WebSphere Application Server used for optimization with a valid server certificate. The certificate must be configured on the Maximo Asset Management Application Server.

Configuring IBM Decision Optimization on Cloud

Maximo Asset Management Scheduler Plus 7.6.5 includes support for the IBM Decision Optimization on Cloud service. You can configure the system properties on Maximo Asset Management Scheduler Plus to enable the IBM Decision Optimization on Cloud service.

Before you begin

You must subscribe to the IBM Decision Optimization on Cloud service at the marketplace first to retrieve your API key and the base URL to use with Maximo Asset Management Scheduler Plus. See the IBM Marketplace.

Procedure

1. In the System Properties application, enable cloud optimization services:
 - a. Set the **docplexcloud** property to 1 to host the service on the cloud.
 - b. Select the **docplexcloudapi.apikey** property and enter the API key that you received when you subscribed to the service.
 - c. Select the **docplexcloudapi.baseurl** property and enter the URL for the service.
2. Configure the optimization server to connect to the IBM Decision Optimization on Cloud service:
 - a. In the Graphical Scheduling or the Graphical Assignment application, select the **Configure Optimization Server** action.
 - b. In the Optimization Server Parameters window, select the type of model that you want to deploy, and click to deploy the service.

What to do next

After you deploy the service, you can track the optimization runs on submitted problem files by signing in to the Decision Optimization on Cloud website and following the on-screen instructions.

Automatically updating the database and building and deploying the EAR file

If you deferred the configuration step during installation, you can use the configuration tool to update the Maximo database and build and deploy the EAR file.

Before you begin

Ensure that the installation of Maximo Asset Management Scheduler Plus is complete.

About this task

If you do not want to use the graphical interface, you can use the command line tool to perform the same operations.

Procedure

1. Start the configuration tool by double-clicking the ConfigUI file in the *install_home/ConfigTool* directory.
2. On the home screen of IBM Tivoli's process automation engine configuration tool, select **Update the database with the UpdateDB Lite feature**.
3. Complete the screens in the configuration tool.

Manually building and deploying the EAR files

If you do not use the configuration program, you must manually update the Maximo database and build and deploy the EAR file. The manual process is required for environments that use Oracle WebLogic Server.

Updating the database and building the EAR file

To deploy the product, you must update the Maximo database and build and deploy the Maximo EAR file.

Procedure

1. Change to the *install_home\maximo\tools\maximo* directory and run the **updatedb** command.
2. If languages other than English are installed on the system, run the following command:

```
install_home\maximo\tools\maximo\TDToolkit.bat -pmpupdateacm -useexpander
```
3. Change to the *install_home\maximo\deployment* directory and run one of the following commands:

Option	Description
WebSphere Application Server	buildmaximoeawas8
Oracle WebLogic Server	buildmaximoea

Deploying the EAR file on WebSphere Application Server

Deployment of the Maximo EAR file is required before you can use the product on WebSphere Application Server.

Before you begin

Ensure that you updated the Maximo database and built the EAR files.

About this task

The Maximo EAR files are installed on WebSphere Application Server during the Maximo Asset Management installation.

Replace the parameters in the command syntax with the values in your deployment. For more information, see "Command syntax for deploying EAR files on WebSphere Application Server."

Procedure

Deploy the Maximo EAR file by opening a command prompt and running the following command:

```
websphere_home\jac1\solutions\DeployApplication.[bat|sh] WASAdminUserName  
WASAdminPassword "MAXIMO" WASNodeName WASApplicationServerName  
"install_home\maximo\deployment\default\maximo.ear" WASVirtualHost  
WASWebServerName
```

Command syntax for deploying EAR files on WebSphere Application Server:

You use parameters in the command syntax when you manually deploy the EAR files on WebSphere Application Server.

Parameters

WASAdminUserName

A WebSphere Application Server Network Deployment account that has deployment privileges.

WASAdminPassword

The password of the user who is specified in the *WASAdminUserName* parameter.

WASNodeName

The name of the WebSphere Application Server Network Deployment node.

WASApplicationServerName

The name of the WebSphere Application Server Network Deployment application server.

WASVirtualHost

The name of the WebSphere Application Server Network Deployment virtual host.

WASWebServerName

The name of the WebSphere Application Server Network Deployment web server.

Deploying the EAR files on Oracle WebLogic Server

Deployment of the Maximo EAR files is required before you can use the product on Oracle WebLogic Server.

Before you begin

Ensure that you have updated the Maximo database and built the EAR file.

About this task

The Maximo EAR file is installed on WebLogic Server during the Maximo Asset Management installation.

Deploying the EAR file starts the application server.

Procedure

1. Open a command prompt and change to the following directory:

Operating system	Location
Windows	<i>weblogic_home</i> \user_projects\domain\mydomain
UNIX	<i>weblogic_home</i> /mxadmin/oracle/user_projects/domains/mydomain

2. Start WebLogic Server.

Option	Command
Windows	startWebLogic.cmd
UNIX or Linux	./startWebLogic.sh

3. Specify the WebLogic Server user name and password.
4. Log in to the WebLogic Server console at <http://hostname:7001/console>
5. In the WebLogic Server console, follow the instructions to deploy the `maximo.ear` file.

What to do next

The configuration tool does not deploy the EAR file on Oracle WebLogic Server. You must manually deploy the EAR file.

Installing Maximo Asset Management Scheduler Plus silently

A silent installation is useful for installing Maximo Asset Management Scheduler Plus on any computers that are configured in the same way. Instead of using the installation programs, you run commands by using a generated response file that was created during the initial installation of Maximo Asset Management Scheduler Plus.

Before you begin

To create a response file during the installation of Maximo Asset Management Scheduler Plus, open a command prompt and set the **record** environment variable to *true*. Then, start the Maximo Asset Management Scheduler Plus launchpad. The response file is generated in the home directory of the user ID that started the program.

Alternatively, you can modify one of the sample response files that are provided in the installation image.

Ensure that the values in the response file are valid for the target system. If you update the value for the **installLocation** parameter, you must also provide a new value for the **profile id** parameter.

Procedure

1. Copy the response file and the compressed installation image to the target computer.
2. On the target computer, open a command prompt and change directory to the location of the Installation Manager program.

Option	Description
Windows	cd C:\SMP\IBM\InstallationManager\ eclipse\tools\
Linux and UNIX	cd /opt/IBM/InstallationManager/eclipse/ tools/

3. Silently start Installation Manager by running the following command:

```
imcl -input responsefilename
-log logfile-acceptLicense
```

The **-input** parameter determines the path to the response file and the **-log** parameter determines the path to where the log files are written. The **-acceptLicense** parameter is used to accept the license automatically. For example, on Windows, run the following command:

```
imcl -silent -input C:\tmp\ResponseFile_Scheduler_Install_Windows.xml
-log C:\tmp\silent_install_log.xml -acceptLicense
```

4. After Maximo Asset Management Scheduler Plus is installed, update the Maximo Asset Management configuration and then rebuild and redeploy the application EAR file from the command line.

Option	Description
WebSphere Application Server	Run the reconfigurePae command. reconfigurePae -action updateApplication [-updatedb] [-deploymaximoear] [-deployhelp ear] [-wasuser userid] [-waspwd password]
WebLogic Server	1. Run the reconfigurePae command. reconfigurePae -action updateApplication [-updatedb] 2. Build the application EAR files. cd <i>install_home</i> \maximo\deployment buildmaximoear // build Maximo EAR buildhelp ear // build Maximo help EAR 3. Deploy the application EAR files manually to the application server.

Optimization server configuration

Additional information must be configured before you can run optimization. Configure the information in the Configure Optimization Server window, available from the Action menu in the Graphical Scheduling and Graphical Assignment applications.

You must enter the following information:

- The details for your optimization server
- The URL of the optimization server
- The optimization model repository information

Each optimization model that is listed must have its own user name and password in the optimization model. You must create one new user in the database for each optimization model. The user and its associated schema cannot be used for any other purpose.

Weather data configuration for IBM Maximo Asset Management Scheduler Plus

If you have a subscription to Weather.com, you can display weather data in Maximo Asset Management Scheduler Plus. You must configure the Maximo Asset Management application server to trust server certificates that are issued by api.weather.com.

Server certificates must be configured to be trusted to access weather information between the application server and the api.weather.com server. You can export certificates from the Weather.com website and then import them into your Maximo Asset Management application server. The process of importing certificates into the Maximo Asset Management application server JVM is platform-specific. Refer to your application server's documentation for details. You might be required to restart your server after configuration updates.

If you use IBM WebSphere Application Server, you must import the certificate into a Cell or Node default truststore. WebSphere Application Server also provides an option to retrieve certificates from the weather server and import them into the truststore by using the retrieve from port feature (**SSL certificate and key management > Key stores and certificates > CellDefaultTrustStore > Signer certificates > retrieve from port**).

If you use Oracle WebLogic Server, you can import certificates into the truststore by using the **keytool** command that is provided by the JVM. After you import the certificates, you must configure support for wildcard certificates by specifying **weblogic.security.utils.SSLWLSWildcardHostnameVerifier** as a custom host name verifier.

If you are upgrading from Maximo Asset Management Scheduler Plus 7.6.4 where weather information is already configured, you must install the new IBM IoT Weather Data on Cloud to continue to access weather information. More information is at Availability of IBM IoT Weather Data on Cloud, Maximo Asset Management Scheduler Plus

Installing help locally

Product help for Maximo Asset Management Scheduler Plus is provided online in IBM Knowledge Center. If you want to install help locally, you can download IBM Knowledge Center and help packages from Fix Central.

Installing help

You can download help packages from Fix Central that contain the same documentation packages that are available online in IBM Knowledge Center. You add the help packages and configuration files to a local installation of IBM Knowledge Center

Procedure

1. To download a locally-installable version of IBM Knowledge Center and help packages from Fix Central, follow the instructions at <http://www-01.ibm.com/support/docview.wss?uid=swg24041962>.
2. Extract the IBM Knowledge Center package to the location where you want to install it. No configuration is required.
3. Extract a help package to a temporary location. The extracted files include one or more plugin folders, a properties file and a taxonomy file.
4. Copy all `com.ibm.prod.doc` plugin folders from the help package to the `install_home/KnowledgeCenter/usr/content/KCXhtml` directory.
5. Copy the properties file to the configuration directory, for example to `install_home/KnowledgeCenter/usr/conf/SSLKT6_7.6.0.5.properties`.
6. Replace the `install_home/KnowledgeCenter/usr/taxonomy/KC_taxonomy.ditamap` with the version of the `KC_taxonomy.ditamap` file that is included in the help package.
7. In the `install_home/KnowledgeCenter/bin` directory, click **startKC.bat** on Windows or **startKC.sh** on Linux or AIX to start IBM Knowledge Center.
8. In a browser, open <http://127.0.0.0:9090> to view the product help. If you changed the default host or port values for your IBM Knowledge Center installation, change the URL accordingly.
9. In Maximo Asset Management Scheduler Plus, redirect the application help links to point to your local installation of IBM Knowledge Center:
 - a. In the System Properties application, filter for `mxe.help` properties.
 - b. Change the `mxe.help.host` and `mxe.help.port` properties to the host and port values for your local installation of IBM Knowledge Center, such as the default host value of `127.0.0.0` and default port value of `9090`.
 - c. Save the changes and click **Live Refresh** to update the values in the product database.
10. To stop IBM Knowledge Center, in the `install_home/KnowledgeCenter/bin` directory, click **stopKC.bat** on Windows or **stopKC.sh** on Linux or AIX.

IBM Knowledge Center configuration

IBM Knowledge Center requires minimal configuration to run help packages for IBM products in your local environment. You can also configure it to provide different content in separate instances of IBM Knowledge Center or to run existing Eclipse help plugins in IBM Knowledge Center.

Changing the IBM Knowledge Center URL

If you install IBM Knowledge Center on your local computer, when you start the server, the help is available in a browser at the default URL of <http://localhost:9090/kc>. The host value changes, depending on where you install IBM Knowledge Center. If the default port is already in use, you can change the port value in the `kc_ant.properties` file in the `etc` directory.

If you want to provide different help to different audiences or if you want to host help for product versions that are not compatible with each other, you can install multiple instances of IBM Knowledge Center on the same computer. You rename the additional instances to unique directory names, such as `KnowledgeCenter2` and `KnowledgeCenter3`, and you configure the `kc_ant.properties` file in the `etc` directory so that each instance runs on a different port.

Maintaining taxonomy files

Each product version in the IBM software catalog has a unique taxonomy value that forms part of the URL for the product help on www.ibm.com. For example, the taxonomy value for Maximo Asset Management, version 7.6.0.5, is `SSLKT6_7.6.0.5`, and the URL for the product welcome page is `http://www.ibm.com/support/knowledgecenter/SSLKT6_7.6.0.5/com.ibm.mam.doc/welcome.html`. The `taxonomy.properties` file and the `KC_taxonomy.ditamap` file control the taxonomy values in IBM Knowledge Center.

Each help package includes a `taxonomy.properties` file that is specific to the product version. You must add this file to the `usr/conf` directory in IBM Knowledge Center. If you add help packages for multiple products to IBM Knowledge Center, the `usr/conf` directory must contain a separate `taxonomy.properties` file for each help package.

The `KC_taxonomy.ditamap` file lists each product version in the IBM software catalog, and the file is frequently updated as new products and new versions of products are released. A basic version of the `KC_taxonomy.ditamap` file is provided as a placeholder in the `usr/taxonomy` directory in IBM Knowledge Center but it does not contain a comprehensive list of product taxonomy values. You must replace this placeholder file with the version of the `KC_taxonomy.ditamap` that is included in the help package.

When you add multiple help packages to IBM Knowledge Center, each help package includes a `KC_taxonomy.ditamap` file. Because of the dynamic nature of this file, the included `KC_taxonomy.ditamap` files might be at different versions. Always use the most recent version of the file because taxonomy values are added to the file incrementally.

Troubleshooting

When you start IBM Knowledge Center after adding a new help package, index and cache files are created to enable faster search and retrieval of help topics. If the new help topics do not show in a browser, check if subdirectories were created for the product version in the `runtime/diskcache` and `runtime/index` directories. If these subdirectories were not created, check that the `taxonomy.properties` file exists in the `usr/conf` directory and that it contains the correct path to the main help plugin in the `usr/content/KCXhtml` directory. If the `taxonomy.properties` is in the correct location and contains the correct path to the help plugin, it is likely that you forgot to add the latest version of the `KC_taxonomy.ditamap` to the `usr/taxonomy` directory.

After troubleshooting, before you start IBM Knowledge Center, you can delete the product version subdirectories in the `runtime/diskcache` and `runtime/index` directories, to ensure that the content is fully refreshed.

Help components

Help components include a locally-installable version of IBM Knowledge Center and help packages that contain content plugins for product versions. You can download a locally-installable version of IBM Knowledge Center to deploy help packages in your local environment.

IBM Knowledge Center

A standalone help system that includes a WebSphere Application Server Liberty, version 8.5.5.x, embedded server. IBM Knowledge Center is

distributed to Maximo customers on Fix Central. IBM Knowledge Center is available for Windows, Linux, or AIX platforms and you can run IBM Knowledge Center on a local computer, server, or read-only media.

After you extract the IBM Knowledge Center package, you add product help packages to it to deploy help in your local environment. You can use IBM Knowledge Center to host help packages for several products at the same time, if the products are on compatible release versions. If you want to host help packages that are not compatible with one another, you can run additional instances of IBM Knowledge Center that you configure to run on different ports.

Help packages

Contain the same documentation that is available on <http://www.ibm.com/support/knowledgecenter> and include one or more content plugins that contain topics in their appropriate directories and the navigation files that control the table of contents for the topics. Help packages also include the following files that are required by IBM Knowledge Center:

- A *taxonomy.properties* file contains the taxonomy value for the product version and the path to the main *toc.ditamap* file for the plugin or plugins in the help package.
- The *KC_taxonomy.ditamap* file lists the taxonomy values for all products in the IBM software catalog. A basic version of this file is included in IBM Knowledge Center but this version of the file is not up-to-date. The *KC_taxonomy.ditamap* file that is included in the help package is the current version of the file when the help package is created.

Help packages include instructions for where to add the plugins and the additional files to IBM Knowledge Center.

IBM Knowledge Center versions

The locally-installable versions of IBM Knowledge Center are based on IBM Knowledge Center, version 1.5. This version has a different look and feel to IBM Knowledge Center, version 2.0, which is on IBM Knowledge Center (<http://www.ibm.com/support/knowledgecenter>). The functionality is similar but there are some differences in navigation and search. PDF creation is not supported on the locally-installable version.

When a locally-installable IBM Knowledge Center, version 2.0, is available, it will be distributed to customers who want to update their local version.

Maximo Asset Management documentation library

The help packages in the documentation library mirror the product catalog and installation environment. Either the Maximo Asset Management help package or the Maximo Asset Management Multitenancy help package must be installed in the same IBM Knowledge Center environment where you install help packages for industry solutions and add-on products.

The Maximo Asset Management and Maximo Asset Management Multitenancy help packages contain multiple plug-ins. Help packages for industry solutions and add-on products contain one or more plug-ins. When a help package contains multiple plug-ins, one plug-in acts as the navigation plug-in. A navigation plug-in contains the main *toc.ditamap* file that controls the table of contents for all plug-ins in the help package. The *taxonomy.properties* file that is included in the help package specifies the path to the main *toc.ditamap* file.

Maximo Asset Management and Maximo Asset Management Multitenancy help packages include reuse plug-ins. These plug-ins contain topics only. Consuming plug-ins control the table of contents and metadata for the reused topics. The content is used extensively by other help plug-ins and you must install reuse plug-ins in IBM Knowledge Center to provide coherent content and ensure that links resolve.

Maximo Asset Management help package

This help package includes the following plug-ins:

com.ibm.mam.doc

Navigation plug-in, containing the welcome page and product overview, and help for planning, getting started, and managing financial processes.

com.ibm.mam.inswas.doc

Help for installing Maximo Asset Management on WebSphere Application Server.

com.ibm.mam.inswl.doc

Help for installing Maximo Asset Management on Oracle WebLogic Server.

com.ibm.mbs.doc

Reuse plug-in, containing help for administering Maximo Asset Management, application design, workflow design, working with Migration Manager, implementing high availability, and application help.

com.ibm.mif.doc

Reuse plug-in, containing help for integrating Maximo Asset Management data with external applications.

com.ibm.support.mbs.doc

Reuse plug-in, containing troubleshooting and support information for Maximo Asset Management and for industry solutions and add-on products. Troubleshooting topics for industry solutions and add-on products are visible only if that help plug-in is installed in IBM Knowledge Center.

Maximo Asset Management Multitenancy help package

This help package contains a subset of the plug-ins in the Maximo Asset Management help package and the content is aimed at tenants in a multitenancy environment. You cannot install Maximo Asset Management plug-ins and Maximo Asset Management Multitenancy plug-ins in the same instance of IBM Knowledge Center environment. If you want to support both libraries, you must configure separate instances of IBM Knowledge Center to support them.

This help package includes the following plug-ins:

com.ibm.mt.doc

Navigation plug-in, containing the welcome page and product overview, and help topics for planning, getting started, and managing financial processes. Content also includes topics that are specific to a tenant in a multitenancy environment.

com.ibm.mbs.doc

Reuse plug-in. Topics are filtered to exclude information that is not relevant to tenants in a multitenancy environment.

com.ibm.mif.doc

Reuse plug-in. Topics are filtered to exclude information that is not relevant to tenants in a multitenancy environment.

Industry solution and add-on help packages

The help packages for industry solutions and add-on products are intended for use with the associated version of the Maximo Asset Management help package. You can check which version of Maximo Asset Management or Maximo Asset Management is a prerequisite for an industry solution or add-on product version at the System requirements for Maximo products website. You can install non-recommended versions of help packages together but some links might not resolve or some of the features that are described in topics might not be available to users.

Notices

This information was developed for products and services offered in the US. This material might be available from IBM in other languages. However, you may be required to own a copy of the product or product version in that language in order to access it.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

*IBM Director of Licensing
IBM Corporation
North Castle Drive, MD-NC119
Armonk, NY 10504-1785
US*

For license inquiries regarding double-byte character set (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

*Intellectual Property Licensing
Legal and Intellectual Property Law
IBM Japan Ltd.
19-21, Nihonbashi-Hakozakicho, Chuo-ku
Tokyo 103-8510, Japan*

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM websites are provided for convenience only and do not in any manner serve as an endorsement of those

websites. The materials at those websites are not part of the materials for this IBM product and use of those websites is at your own risk.

IBM may use or distribute any of the information you provide in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

*IBM Director of Licensing
IBM Corporation
North Castle Drive, MD-NC119
Armonk, NY 10504-1785
US*

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

The performance data and client examples cited are presented for illustrative purposes only. Actual performance results may vary depending on specific configurations and operating conditions.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

This information is for planning purposes only. The information herein is subject to change before the products described become available.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to actual people or business enterprises is entirely coincidental.

COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. The sample

programs are provided "AS IS", without warranty of any kind. IBM shall not be liable for any damages arising out of your use of the sample programs.

Trademarks

IBM, the IBM logo, and ibm.com are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the web at "Copyright and trademark information" at www.ibm.com/legal/copytrade.shtml.

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

Linux is a trademark of Linus Torvalds in the United States, other countries, or both.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Terms and conditions for product documentation

Permissions for the use of these publications are granted subject to the following terms and conditions.

Applicability

These terms and conditions are in addition to any terms of use for the IBM website.

Personal use

You may reproduce these publications for your personal, noncommercial use provided that all proprietary notices are preserved. You may not distribute, display or make derivative work of these publications, or any portion thereof, without the express consent of IBM.

Commercial use

You may reproduce, distribute and display these publications solely within your enterprise provided that all proprietary notices are preserved. You may not make derivative works of these publications, or reproduce, distribute or display these publications or any portion thereof outside your enterprise, without the express consent of IBM.

Rights

Except as expressly granted in this permission, no other permissions, licenses or rights are granted, either express or implied, to the publications or any information, data, software or other intellectual property contained therein.

IBM reserves the right to withdraw the permissions granted herein whenever, in its discretion, the use of the publications is detrimental to its interest or, as determined by IBM, the above instructions are not being properly followed.

You may not download, export or re-export this information except in full compliance with all applicable laws and regulations, including all United States export laws and regulations.

IBM MAKES NO GUARANTEE ABOUT THE CONTENT OF THESE PUBLICATIONS. THE PUBLICATIONS ARE PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT, AND FITNESS FOR A PARTICULAR PURPOSE.



Printed in USA