

IBM Maximo Asset Management Scheduler
Version 7 Release 6

Installation Guide

IBM

Note

Before using this information and the product it supports, read the information in "Notices" on page 11.

This edition applies to version 7, release 6, modification 1 of IBM Maximo Asset Management Scheduler and to all subsequent releases and modifications until otherwise indicated in new editions.

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Chapter 1. System requirements for Maximo Asset Management Scheduler

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

The user who is installing Maximo Asset Management Scheduler 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 7.6.1 on the administrative workstation where Maximo Asset Management 7.6.0.2 is installed.

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

Chapter 2. Installing Maximo Asset Management Scheduler

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

Before you begin

- Ensure that the installed version of Maximo Asset Management is 7.6.0.2 or later. To update to Maximo Asset Management 7.6.0.2 from version 7.6.0, navigate to the IBM Support Portal (www.ibm.com/support/entry/portal/support) and select Maximo Asset Management from the Product Finder drop-down menu. Choose version 7.6.0 and refer to the Downloads section to find the 7.6.0.2 fix pack.
- Back up the middleware servers and the administrative workstation.
- If you intend to perform a silent installation of the product later, see the information about installing silently.

About this task

The launchpad prompts you to specify the directory for the installation. The default directory is saved in the `Maximo_install.locations` file in the `\Users\IBM_ADMIN` directory.

Procedure

1. Prepare the application server for the installation:

Application server	Task
WebSphere® Application Server	Ensure that the application server is started. The installation program connects to the application server by using the login information that you specify.
Oracle WebLogic Server	Ensure that the application server (MAXIMOSERVER) is stopped. If the application server is running, stop the server and wait a few minutes before you start the installation program. If the application server is not stopped, the installation process cannot proceed.

2. Download the Maximo Asset Management Scheduler 7.6.1 product software from IBM® Passport Advantage® and extract the installation image to a local directory.
3. Start the launchpad by double-clicking the launchpad file. If your computer is a Windows system, use the `launchpad64.exe` file. If your computer is a UNIX or Linux system, use the `launchpad.sh` file.
4. On the Install IBM Maximo Scheduler pane, click **Install**.
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 program.
7. Select **IBM Tivoli process automation engine configuration utility**, and click **Finish** to start the Maximo Asset Management configuration program.

8. In the configuration program, select **Update Database and Build and Deploy Application EAR Files**.
9. From the Apply Deployment Operations panel, select the options appropriate for your environment, and then click **Finish**

Option	Description
WebSphere Application Server	Select the options for applying changes to the database, and automatically building and deploying application EAR files.
Oracle WebLogic Server	Select the options for applying changes to the database and automatically building the application EAR files. You cannot deploy application EAR files to WebLogic Server by using the Maximo Asset Management configuration program.

10. Complete the configuration program.
11. When the installation and configuration processes are complete, log in to Maximo Asset Management and verify that the latest version of Maximo Asset Management Scheduler is listed in the system information window.

Configuring IBM ILOG ODM Enterprise (Optional)

After you install Maximo Asset Management Scheduler 7.6.1, you can also configure IBM ILOG ODM Enterprise 3.7.

Before you begin

Maximo Asset Management Scheduler 7.6.1 must be installed before you can configure IBM ILOG ODM Enterprise 3.7.

About this task

IBM ILOG ODM Enterprise 3.7 is an optional component that can analyze proposed activity schedules that are developed in Maximo Asset Management Scheduler, and then produce information for optimizing the schedule.

IBM ILOG ODM Enterprise Server files must be copied from the Maximo Asset Management administrative workstation to the system that is hosting WebSphere Application Server Network Deployment.

IBM ILOG ODM Enterprise 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 archives of ODM Enterprise Optimization Server and Data Server files that are bundled for supported operating systems.
3. Copy the appropriate ODM Enterprise Optimization Server and Data Server archive file from the Maximo Asset Management administrative workstation to the system that is hosting WebSphere Application Server Network Deployment. For example, if WebSphere Application Server Network Deployment is hosted

- on a Linux system, copy the `odme-3.7fixpack1-embedded-server-linux-x86-64.zip` file to the WebSphere Application Server Network Deployment server.
4. Log on to the WebSphere Application Server Network Deployment server and expand the ODM Enterprise Optimization Server and Data Server archive file.
 5. Configure ODM Enterprise Optimization Server and Data Server components. For detailed information, refer to the *Manual ODM Enterprise Optimization Server and Data Server installation for WAS* section of the *IBM ILOG ODM Enterprise Optimization Server and Data Server Installation Guide*. The *IBM ILOG ODM Enterprise Optimization Server and Data Server Installation Guide* is in the `doc\pdf` directory of the archive file that you expanded. You do not have to install ODM Enterprise Optimization Server and Data Server components. All of the necessary files are extracted from the archive files bundled with Maximo Asset Management Scheduler. Complete configuration tasks, starting with the section *Manual Installation step 2 – configuring the ODM Enterprise datasource* in *IBM ILOG ODM Enterprise Optimization Server and Data Server Installation Guide for WebSphere Application Server*.

Automatically building and deploying the EAR files

If you deferred the configuration process during installation, you can update the Maximo database and build and deploy the EAR files by using the configuration program.

Before you begin

The installation of Maximo Asset Management Scheduler must be complete.

Procedure

1. In the `install_home/ConfigTool` directory, start the configuration program by double-clicking the `ConfigUI` file.
2. On the home screen, select **Update Database and Build and Deploy Application EAR Files**.
3. Complete the configuration program.

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 files. The manual process is required for environments that use Oracle WebLogic Server.

Building the EAR files

Deployment of the product involves updating the Maximo database and rebuilding the Maximo EAR file and the Maximo help system EAR file.

Procedure

1. Change to the `install_home\maximo\tools\maximo` directory and run the `updatedb` command.
2. Change to the `install_home\maximo\deployment` directory and running one of the following commands:

Option	Description
WebSphere Application Server	<code>buildmaximoearwas8</code>
Oracle WebLogic Server	<code>buildmaximoear</code>

3. In the *install_home*\maximo\deployment directory, run the **buildmxiehsear** command.

Deploying the EAR files on WebSphere Application Server

Deployment of the Maximo EAR files 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

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

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

2. Deploy the Maximo help system EAR file by opening a command prompt and running the following command:

```
websphere_home\jacc\solutions\DeployApplication.[bat|sh] WASAdminUserName  
WASAdminPassword "MAXIMOIEHS" WASNodeName WASApplicationServerName  
"websphere_home\maximo\deployment\default\maximoiehs.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 updated the Maximo database and built the EAR files.
- On Windows: Ensure that the MAXIMOSERVER server is running.
- On UNIX: Ensure that the WebLogic Server daemon is running.

To view the WebLogic Server console, a Java™ virtual machine must be installed.

About this task

The Maximo EAR files are installed on Oracle WebLogic Server during the Maximo Asset Management installation.

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 by running the following command:

Operating system	Command
Windows	startWebLogic.cmd
UNIX	./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 and the maximoiehs.ear file.

Installing Maximo Asset Management Scheduler silently

A silent installation is useful for installing Maximo Asset Management Scheduler 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.

Before you begin

To create a response file during the installation of Maximo Asset Management Scheduler, open a command prompt and set the **record** environment variable to *true*. Then, start the Maximo Asset Management Scheduler 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-name-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 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] [-deployhelpear] [-wasuser userid] [-waspwd password]

Option	Description
WebLogic Server	<ol style="list-style-type: none"> <li data-bbox="959 236 1451 357">1. Run the reconfigurePae command. <pre>reconfigurePae -action updateApplication [-updatedb]</pre> <li data-bbox="959 368 1451 487">2. Build the application EAR files. <pre>cd <i>install_home</i>\maximo\deployment buildmaximoear // build Maximo EAR buildhelp ear // build Maximo help EAR</pre> <li data-bbox="959 497 1451 551">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 **Select Action** menu in the Scheduler 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.

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