

IBM Maximo Spatial Asset Management
Version 7 Release 6

Installation Guide



Note

Before using this information and the product it supports, read the information in [“Notices” on page 7.](#)

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

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Chapter 1. Installing Maximo Spatial Asset Management

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

System requirements for Maximo Spatial Asset Management

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

Administrative user rights are required for the installation of Maximo Spatial Asset Management.

The installation wizard requires access to the middleware servers that are installed with Maximo Asset Management to complete the installation. You need the administrative user IDs and passwords for the application server, database server, and directory server.

Enterprise system

You install Maximo Spatial Asset Management 7.6.1 on the administrative workstation where Maximo Asset Management 7.6.1.2 is installed.

A complete list of hardware and software requirements is available on the IBM Support site at [Maximo Spatial Asset Management](#).

Installation overview

The installation of IBM® Maximo Spatial Asset Management 7.6.1 involves installing the product and configuring the software.

Before you begin

Ensure that IBM Maximo Asset Management 7.6.1.2 is installed on the server where you are installing Maximo Spatial Asset Management 7.6.1.

For more information, see the installation topics in the [Maximo Asset Management 7.6.1.2 IBM Knowledge Center](#) (www.ibm.com/support/knowledgecenter/SSLK6_7.6.1.1/com.ibm.mam.doc/mam_install/c_installing_feature_pack.html).

For information about upgrading to IBM Maximo Asset Management 7.6.1.2, see the [Maximo Upgrade Resources](#) page (<https://www.ibm.com/support/pages/node/349399>).

Procedure

1. Back up the middleware servers and the administration server.
2. Prepare the application server:

Application server	Task
WebSphere® Application Server	Ensure that the application server is started. The installation wizard connects to the application server by using the login information that you specify.
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 wizard. If the application server is not stopped, the installation process stops.

3. [Install Maximo Spatial Asset Management](#).
4. Update the database and build and deploy the Maximo EAR file by using the configuration wizard.

5. If you use Oracle WebLogic Server, or if you deferred the configuration step, manually update the Maximo database, build the Maximo enterprise archive (EAR) file, and then deploy the Maximo enterprise archive (EAR) file.

Configuration overview

You can use the Maximo Asset Management configuration wizard to configure a new deployment.

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

When you complete the configuration wizard, the Maximo Spatial Asset Management application starts automatically.

If you do not use the configuration wizard to automatically configure the product, you must manually update the database and build and deploy the enterprise archive (EAR) file. Maximo Asset Management includes a command line tool that you can use to manually build and deploy the EAR file. For more information, see [Command line configuration](http://www.ibm.com/support/knowledgecenter/SSLKT6_7.6.1/com.ibm.mam.inswas.doc/install/c_IntroductionToTheCommandLineConfigurationProgram.html) (www.ibm.com/support/knowledgecenter/SSLKT6_7.6.1/com.ibm.mam.inswas.doc/install/c_IntroductionToTheCommandLineConfigurationProgram.html).

You are required to run the configuration wizard locally on the IBM WebSphere Application Server when you are preparing it for Maximo Spatial Asset Management deployment.

Restriction: The configuration wizard does not deploy the EAR file on Oracle WebLogic Server. If your environment includes Oracle WebLogic Server, you must manually deploy the EAR file.

When the installation and configuration steps are complete, you can customize Maximo Spatial Asset Management to suit your business needs.

Installing Maximo Spatial Asset Management

You must install Maximo Spatial Asset Management on the administration server and in the same directory where Maximo Asset Management is installed.

Procedure

1. Download the Maximo Spatial Asset Management 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. If your server is a Windows system, use the launchpad.bat file. If your computer is a UNIX or Linux® system, use the launchpad.sh file.
3. On the **Install IBM Maximo Spatial Asset Management** pane, click **Install**.
4. After you accept the terms in the license agreement, select the option to use the existing package group **IBM Tivoli's Process Automation Suite**.
5. Complete the installation wizard.
6. In the configuration wizard, select **Update Database and Build and Deploy Application EAR Files**.
7. Complete the configuration wizard.
8. When the installation is complete, verify that the Maximo Spatial Asset Management component was installed. Log in to Maximo Spatial Asset Management and view the system information from the **Help** menu.

Automatically building and deploying the EAR files

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

Before you begin

Ensure that the installation of Maximo Spatial Asset Management is complete.

Procedure

1. Start the configuration wizard 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 utility, select **Update Database and Build and Deploy Application EAR Files**.
3. Complete the configuration wizard.

Manually building and deploying the EAR file

If you do not use the configuration wizard, you must manually update the Maximo database and build and deploy the EAR file. If your deployment uses Oracle WebLogic Server, you are required to complete the manual steps.

Maximo Asset Management includes a command line tool, which is located in the *install_home\ConfigTool\scripts* directory. Command-line configuration quickly updates configuration values without using the configuration wizard. You can use the command line tool to build and deploy the EAR file.

Building the EAR files

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

Procedure

1. Open a command prompt and change to the *install_home\maximo\tools\maximo* directory.
2. Run the following command:

```
updatedb
```

3. Change to the *install_home\maximo\deployment* directory and run one of the following commands:

Option	Description
WebSphere Application Server	buildmaximoearwas8
Oracle WebLogic Server	buildmaximoear

Deploying the EAR files on WebSphere Application Server

If you did not use the configuration wizard, Maximo Asset Management includes a command line tool, which you can use to manually deploy the EAR file.

Before you begin

- Update the Maximo database and build the EAR file.
- Ensure that the application server is started.

About this task

The EAR file is installed on WebSphere Application 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 *install_home\ConfigTool\scripts* directory.
2. On Windows systems, run the following command:

```
reconfigurePae.bat -action configureProducts -deploymaximoear
```

On UNIX or Linux systems, run the following command:

```
reconfigurePae.sh -action configureProducts -deploymaximoear
```

Deploying the EAR file on Oracle WebLogic Server

After you build the EAR file, you must deploy it from the WebLogic Server console.

Before you begin

- Update the Maximo database and build the EAR file.
- On Windows: If the MAXIMOSERVER server is not running, start it from a command prompt.
- 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 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 `mydomain` directory.
 - On Windows systems, the directory path is `weblogic_home\user_projects\domain\mydomain`.
 - On UNIX or Linux systems, the directory path is `weblogic_home/mxadmin/oracle/user_projects/domains/mydomain`.
2. Start WebLogic Server.

On Windows systems, run the following command:

```
startWebLogic.cmd
```

On UNIX or Linux systems, run the following command:

```
./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.

Chapter 2. Installing Maximo Spatial Asset Management silently

A silent installation is useful for installing Maximo Spatial Asset Management on any servers 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 Spatial Asset Management.

Before you begin

To create a response file during the installation of Maximo Spatial Asset Management, set the **record** environment variable. On a Windows server, set **record=true**. On a UNIX or a Linux server, export **record=true**. When you start the Maximo Spatial Asset Management 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. The **installLocation** parameter and the **profile id** parameter must correspond with the existing Maximo Asset Management instance.

Procedure

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

Option	Description
Windows	cd C:\Program Files\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 logfilefilename -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 -input C:\tmp\Spatial_Silent_ResponseFile.xml  
-log C:\tmp\silent_install_log.xml -acceptLicense
```

4. After Maximo Spatial Asset Management 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	<p>From the R:\IBM\SMP\ConfigTool\scripts directory, run the reconfigurePae command.</p> <pre>reconfigurePae -action updateApplication [-updatedb] [-deploymaximoear] [-deployhelppear] [-wasuser userid] [-waspwd password]</pre>

Option	Description
WebLogic Server	<p>a. From the R:\IBM\SMP\ConfigTool\scripts directory, run the reconfigurePae command.</p> <pre data-bbox="548 275 1476 369">reconfigurePae -action updateApplication [-updatedb]</pre> <p>b. Build the application EAR file.</p> <pre data-bbox="548 428 1476 501">cd <i>install_home</i>\maximo\deployment buildmaximoear // build Maximo EAR</pre> <p>c. Deploy the application EAR file manually to the application server.</p>

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