

IBM Maximo Archiving with InfoSphere Optim Data Growth  
Solution  
Version 7 Release 6

## *Installation Guide*



**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 0 of IBM Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution and to all subsequent releases and modifications until otherwise indicated in new editions.

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# Chapter 1. Planning to deploy Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution

IBM Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution 7.6 must be installed with IBM® Maximo® Asset Management 7.6. Your environment can also include IBM Maximo Asset Management Multitenancy 7.6.

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## System requirements for Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution

Before you install Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution, your environment must meet all of the hardware and software requirements.

Administrative user rights are required for the installation of Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution.

The installation program requires access to the middleware servers that are installed with Maximo Asset Management to complete the installation.

Refer to the documentation provided for IBM InfoSphere Optim solutions for a list of supported hardware, software, and operating systems. Not all platforms and software supported by Maximo Asset Management are supported by IBM InfoSphere Optim solution components. In some cases, database software supported by Maximo Asset Management is only partially supported by IBM InfoSphere Optim solutions.

### Enterprise system

You install Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution 7.6 on the administrative workstation where Maximo Asset Management 7.6 is installed.

### Maximo Asset Management Multitenancy

Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution 7.6 can be installed with Maximo Asset Management Multitenancy 7.6.

If Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution is installed in a Maximo Asset Management Multitenancy environment, Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution is enabled for all tenants except the system provider tenant.

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

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## Installation overview

The installation of IBM Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution 7.6 involves installing the product and configuring the software.

## Before you begin

Ensure that IBM Maximo Asset Management 7.6 is installed on the computer where you are installing Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution 7.6.

If you want to install Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution components on a Windows Server 2012 system, you must ensure that you set the launchpad and installation programs to Windows 7 compatibility mode.

For more information, see the installation topics in the Maximo Asset Management 7.6 IBM Knowledge Center.

For information about upgrading to IBM Maximo Asset Management 7.6, see the Maximo Upgrade Resources website.

## Procedure

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

| 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.   |
| 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 stops. |

3. Install Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution and template files.
4. Update the database and build and deploy the Maximo EAR files by using the configuration program.
5. If you use Oracle WebLogic Server, or if you deferred the configuration step, manually update the Maximo database and build and deploy the Maximo enterprise archive (EAR) files.

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## Configuration overview

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

The configuration program is launched automatically when the installation program is complete.

When you complete the configuration program, the Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution application starts automatically.

If you do not use the configuration program to automatically configure the product, you must manually update the database and build and deploy the enterprise archive (EAR) files.

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

When the installation and configuration steps are complete, you can customize Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution to suit your needs.





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## Chapter 2. Installing Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution

You must install InfoSphere Optim Data Growth Solution, Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution, and the template files in the same directory where Maximo Asset Management is installed.

### Procedure

1. Download the Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution 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 computer is a Windows system, use the launchpad64.exe file. If your computer is a UNIX or Linux system, use the launchpad.sh file.
3. On the Install InfoSphere Optim Data Growth Solution 11.3 panel, click **Install** to install IBM Optim Data Growth Solution. Refer to the InfoSphere Optim Data Growth Solution 11.3 product documentation for details.
4. Install the IBM Maximo Archiving template files for InfoSphere Optim Data Growth Solution and integration components.
  - a. On the Install IBM Maximo Archiving with InfoSphere Optim Data Growth Solutions panel, select the **Install IBM Maximo Archiving template files for InfoSphere Optim Data Growth Solution** and **Install IBM Maximo Archiving with InfoSphere Optim Data Growth Solution Integration** options.
  - b. Click **Install**.
  - c. When prompted, accept the license and then proceed with the installation.
  - d. Select **IBM Tivoli process automation engine configuration utility**, and click **Finish** to start the Maximo Asset Management configuration program.
5. In the configuration program, select **Update Database and Build and Deploy Application EAR Files**.
6. From the Apply Deployment Operations panel, select the options appropriate for your environment, and then click **Finish**

| Option                              | Description   |
|-------------------------------------|---|
| <b>WebSphere Application Server</b> | Select the options for applying changes to the database, and automatically building and deploying application EAR files.  |
| <b>WebLogic Server</b>              | 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 using the Maximo Asset Management configuration program. |

7. When the installation is complete, verify that the Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution component was installed. Log in to Maximo Asset Management and view the system information from the **Help** menu.

## What to do next

You must configure InfoSphere Optim Data Growth Solution to work with a database that acts as the archive for Maximo Asset Management. This database must include the same structure or schema as the Maximo Asset Management database. You can export a copy of the Maximo Asset Management database to create the archive database. Both databases must remain in synch. Changes to any relevant objects in the Maximo Asset Management database must be replicated in the archive database.

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## Automatically building and deploying the EAR files

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

### Before you begin

Ensure that the installation of Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution is complete.

### Procedure

1. Start the configuration program by double-clicking the ConfigUI file in the *install\_home/ConfigTool* directory.
2. On the home screen, select **Update Database and Build and Deploy Application EAR Files**.
3. Complete the configuration program.

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## Manually building and deploying the EAR files

If you do not use the configuration program, you must complete manually update the Maximo database and build and deploy the EAR files. If your deployment uses Oracle WebLogic Server, you must also complete the manual steps.

### Building the EAR files

To deploy the product, you must update the Maximo database and build and deploy the Maximo EAR and Maximo help system EAR files.

### Procedure

1. Update the Maximo database by changing to the *install\_home\maximo\tools\maximo* directory and running the **updatedb** command.
2. Build the EAR file by changing to the *install\_home\maximo\deployment* directory and running one of the following commands:

| Option                       | Description               |
|------------------------------|---------------------------|
| WebSphere Application Server | <b>buildmaximoearwas8</b> |
| WebLogic Server              | <b>buildmaximoear</b>     |

3. Build the help system EAR file by changing to the *install\_home\maximo\deployment* directory and running the **buildmxiehsear** command.

## Deploying the EAR files on WebSphere Application Server

If you did not use the configuration program, you must manually deploy the Maximo EAR files on WebSphere Application Server. Deploying the EAR files starts the application server.

### Before you begin

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

### About this task

The 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\jac1\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\jac1\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 with 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 WebLogic Server

After you build the EAR files, you must deploy them from the WebLogic Server console. Deploying the EAR files starts the application server.

### Before you begin

- Update the Maximo database and build the EAR files.
- 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 files are installed on WebLogic Server during the Maximo Asset Management installation.

### Procedure

1. Change to the mydomain directory:

| Operating system | Location   |
|------------------|--|
| Windows          | From a command prompt, change to the following directory: <i>weblogic_home\user_projects\domain\mydomain</i>                 |
| UNIX             | From a command prompt, change to the following directory: <i>weblogic_home/mxadmin/oracle/user_projects/domains/mydomain</i> |

2. Start WebLogic Server by running the following command:

| Operating system | Command                   |
|------------------|---------------------------|
| Windows          | <i>startWebLogic.cmd</i>  |
| UNIX             | <i>./startWebLogic.sh</i> |

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.

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## Installing silently

You can install Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution integration component silently from the command line to perform an unattended installation based on predefined settings.

## Before you begin

You must complete a successful installation of Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution to produce a response file that can be used to silently install Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution. You can create a silent installation response file by opening a command prompt, setting the record environment variable, and then starting the Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution installation program through the Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution launchpad. The response file is generated in the home directory of the user that started the program.

Alternatively, you can use one of the sample response files that are provided on the product media and modify the sample file.

If the response file was created on a different system, ensure that all values that are recorded in the response file are valid for the target system. Ensure that the path values that were defined when the response file was created are still valid for the target system. For example, you might need to update the repository location parameter values to indicate the correct path for product and middleware installation images.

If you are installing the product in a directory different from the path used during creation of the response file, update the **installLocation** parameter value. 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 Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution files to the Maximo Asset Management administrative workstation.
2. Open a command prompt and change directory to the location of the Installation Manager program that is appropriate for your operating system.

| Option                | Description  |
|-----------------------|--|
| <b>Windows</b>        | cd C:\Program Files\IBM\Installation Manager\eclipse\tools |
| <b>Linux and UNIX</b> | cd /opt/IBM/InstallationManager/eclipse/tools/             |

3. Silently start the Installation Manager program.

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

The **-input** parameter determines the response file to use, for example, /SI/tpaeInstallerRsp20130716105258.xml. The **-log** parameter determines where log files are written, for example, /tmp/linuxDB2WASMAM\_Log.xml. You must include the full path when you specify the response and log files.

4. After Maximo Archiving Adapter with InfoSphere Optim Data Growth Solution is installed, update Maximo Asset Management configuration and then rebuild and redeploy the application EAR file from the command line.

| Option                       | Description  |
|------------------------------|--|
| WebSphere Application Server | <p>Run the <b>reconfigurePae</b> command.</p> <pre> Install_Home\ConfigTool\scripts\ reconfigurePae -action updateApplication [-updatedb] [-deploymaximoeear] [-deployhelpear] [-wasuser userid] [-waspwd password] </pre>   |
| WebLogic Server              | <ol style="list-style-type: none"> <li>1. Run the <b>reconfigurePae</b> command. <pre> Install_Home\ConfigTool\scripts\ reconfigurePae -action updateApplication [-updatedb] </pre> </li> <li>2. Build the application EAR files. <pre> cd install_home\maximo\deployment buildmaximoeear // build Maximo EAR buildmxiehsear // build Maximo // help EAR </pre> </li> <li>3. Deploy the application EAR files manually to the application server.</li> </ol> |

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