

IBM Maximo for Nuclear Power
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 1 of IBM Maximo for Nuclear Power and to all subsequent releases and modifications until otherwise indicated in new editions.

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Installing Maximo for Nuclear Power

The installation of Maximo® for Nuclear Power involves running an installation program and a configuration program, both of which are started from the launchpad.

System requirements for Maximo for Nuclear Power

Before you install Maximo for Nuclear Power, your environment must meet all of the hardware and software requirements.

Administrative user rights are required for the installation of Maximo for Nuclear Power.

Enterprise system

You install Maximo for Nuclear Power 7.6.1 on the administrative workstation where Maximo Asset Management 7.6.0.7 or higher is installed.

Mobile app

Before you install the mobile app, you must install Maximo Anywhere 7.6.3 or a later version. Maximo Anywhere includes required components that must be installed on the Maximo for Nuclear Power administrative workstation. The required components include OSLC object structures and licenses that enable a set of applications in Maximo Asset Management.

As part of the app application, you must deploy another collection of required components on the Maximo for Nuclear Power administrative workstation.

A complete list of hardware and software requirements is available in the System Requirements section of the Maximo Asset Management wiki (www.ibm.com/developerworks/community/wikis/home?lang=en#!/wiki/IBM%20Maximo%20Asset%20Management/page/Other%20Maximo%20products%20system%20requirements).

Installing Maximo for Nuclear Power

You must install Maximo for Nuclear Power in the same program group where Maximo Asset Management is installed.

Before you begin

Ensure that IBM® Maximo Asset Management 7.6.0.7 or higher is installed on the computer where you are installing Maximo for Nuclear Power 7.6.1.

For more information, see the installation topics for Maximo Asset Management 7.6.0.7 on IBM Knowledge Center (www.ibm.com/support/knowledgecenter/SSLKT6_7.6.0.7/com.ibm.mam.doc/mam_install/c_installing_feature_pack.html).

For information about upgrading to IBM Maximo Asset Management 7.6.0.7, see the Maximo Upgrade Resources website (www.ibm.com/support/docview.wss?uid=swg21266217).

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 have finished in the configuration tool, the Maximo for Nuclear Power application starts automatically.

Procedure

1. Download the Maximo for Nuclear Power 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 for Nuclear Power pane, click **Install**.
4. Select the Maximo for Nuclear Power package if not already selected 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. Ensure the option to start the configuration tool is selected. Complete and exit 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. Select the **Run UpdatedDB Lite pre-processing tasks** option and click **Next**.
10. Select the **Run UpdatedDB Lite post-processing tasks** option and click **Finish**.
11. When the installation is complete, verify that the Maximo for Nuclear Power component was installed. Log in to Maximo for Nuclear Power and view the system information from the **Help** menu.

What to do next

When the installation and configuration steps are complete, you can customize Maximo for Nuclear Power to suit your business needs.

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. If you do not wish to use the configuration tool, you can use the command line tool to perform the same operations. For more information, see Command line configuration (www.ibm.com/support/knowledgecenter/SSLKKT6_7.6.0.5/com.ibm.mam.inswas.doc/install/c_IntroductionToTheCommandLineConfigurationProgram.html).

Before you begin

Ensure that the installation of Maximo for Nuclear Power is complete.

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.
4. To complete the deployment, select to run the pre-processing and post-processing options, and click **Finish**.
5. When the installation is complete, verify that the Maximo for Nuclear Power component was installed. Log in to Maximo for Nuclear Power and view the system information from the **Help** menu.

Manually updating the database and building and deploying the EAR file

If you do not use the configuration tool, 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 that you can use to manually build and deploy the EAR file. For more information, see Command line configuration (www.ibm.com/support/knowledgecenter/SSLKKT6_7.6.0.5/com.ibm.mam.inswas.doc/install/c_IntroductionToTheCommandLineConfigurationProgram.html).

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. Open a command prompt and change to the *install_home\maximo\tools\maximo* directory.
2. Run the following command:
`updatedb`
3. Optional: To add an additional language for use with the product, run the following commands:
`<install_home>\maximo\tools\maximo\TDToolkit.bat`
`-pmpupdatenuclear`
`-useexpander`
4. Change to the *install_home\maximo\deployment* directory and run the following command:

| Option | Description |
|------------------------------|--------------------|
| WebSphere Application Server | buildmaximoearwas8 |
| Oracle Web Logic Server | buildmaximoear |

5. Change to the *install_home\maximo\tools\maximo\internal* directory and run the following command:
`runscriptfile -cserviceprovider -fProductEnabler`

Deploying the EAR file on 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.

| Option | Command |
|---------------|---------------------------------|
| Windows | <code>startWebLogic.cmd</code> |
| UNIX or Linux | <code>./startWebLogic.sh</code> |

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.

Deploying the EAR file on WebSphere Application Server:

If you did not use the configuration tool, 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 commands:

```
reconfigurePae.bat -action configureProductsDBLite -preprocessor -buildears  
reconfigurePae.bat -action configureProductsDBLite -updatedb -deploymaximoeaar
```

On UNIX or Linux systems, run the following commands:

```
reconfigurePae.sh -action configureProductsDBLite -preprocessor -buildears  
reconfigurePae.sh -action configureProductsDBLite -updatedb -deploymaximoeaar
```

Installing the IBM Maximo for Nuclear Power Operator Rounds mobile app

The IBM Maximo for Nuclear Power Operator Rounds mobile app works with the Duty Stations application of IBM Maximo for Nuclear Power 7.6.1. You use the Duty Stations application to configure meters and conditional monitoring points into a route, adding times, conditional controls, and warnings. The mobile app assembles all of the pertinent information from the Duty Stations application into an easy-to-use interface. Additionally, you can attach photos or other files from the mobile device, and upload the attachments to the Maximo server. You can also download attachments from the Maximo server to the mobile device.

Before you begin

On the computer where Maximo for Nuclear Power 7.6.1 is installed, ensure IBM Maximo Asset Management 7.6.0.8 or higher is installed.

Ensure that you installed IBM Maximo Anywhere 7.6.3 on the computer where Maximo for Nuclear Power is installed. For detailed installation instructions, refer to *IBM Knowledge Center for Maximo Anywhere* (www.ibm.com/support/knowledgecenter/SSPJLC_7.6.3/com.ibm.si.mpl.doc/welcome.html).

Ensure that you added users to the ANYWHERE_OPERATOR_ROUNDS security group. For more information, see *Adding users to the Maximo Anywhere security groups* (www.ibm.com/support/knowledgecenter/SSPJLC_7.6.3/com.ibm.si.mpl.doc/install/t_add_users_security.html).

If you plan to install the Maximo for Nuclear Power Operator Rounds mobile app on a designated build computer, copy the app and the Maximo Anywhere compressed file to the target computer.

Before you can build and deploy the IBM Maximo for Nuclear Power Operator Rounds mobile app on the build computer, your environment requires either Android™, iOS®, or Windows™ development tools.

For iOS build failures, proceed with the additional manual setup steps that are found at *Installing the iOS development tools* (https://www.ibm.com/support/knowledgecenter/en/SSPJLC_7.6.3/com.ibm.si.mpl.doc/install/t_install_ios_dev_tools.html).

Note: The Maximo for Nuclear Power Operator Rounds mobile app is supported on Android™-based mobile devices and on iOS®-based mobile devices. The Maximo for Nuclear Power Operator Rounds mobile app is not supported on Windows™ phones.

Note: Mobile app version number On the About screen of the Maximo for Nuclear Power Operator Rounds version 7.6.1 mobile app, the version number that displays is the version for Maximo Anywhere (7.6.3). If you need to contact Customer Support about the mobile app, make a note of the Build number on the About screen to provide to the Customer Support representative.

About this task

A set of required components must be installed on the administrative workstation to extend Maximo for Nuclear Power for mobile apps.

Procedure

1. On the Maximo for Nuclear Power computer, extract the compressed file that contains the mobile app.
2. From the extracted file, start the launchpad.
3. On the Install IBM Maximo for Nuclear Power Operator Rounds 7.6.1 pane, click **Install or Update IBM Maximo Asset Management Required Components** and complete the installation wizard.
4. In Tivoli's process automation engine configuration tool, select **Update Database and Build and Deploy Application EAR File** and complete the configuration tool.
5. To install the mobile app on the computer where Maximo Anywhere is installed, copy the compressed file for the mobile app to the target computer.
6. On the Maximo Anywhere computer, extract the compressed file to a local directory.
7. From the extracted file, start the mobile app launchpad.
8. If you don't use Mac OS X, continue to Step 9. If you use Mac OS X, perform the following steps, then continue to Step 9:
 - a. Start the IBM Installation Manager. When first started, the IBM Installation Manager window must be sent to the background and then brought back to the foreground before any of the drop-down menus work.
 - b. Open the Preferences window.
 - c. Add the ORAnywhereInstallerRepository.zip file.
9. On the pane for installing the mobile app, click **Install or Update IBM Maximo for Nuclear Power Operator Rounds**.
10. Complete the installation wizard.
11. Build and deploy the mobile app by following the instructions in IBM Knowledge Center (www.ibm.com/support/knowledgecenter/SSPJLC_7.6.3/com.ibm.si.mpl.doc/build_deploy/t_ctr_build_deploy_apps.html).

Installing silently

A silent installation is useful for installing the product components on any computers that are configured in the same way.

Installing Maximo for Nuclear Power silently

Instead of using the installation programs, you run commands by using either a generated response file that was created during the initial installation of Maximo for Nuclear Power or by using a sample response file.

Before you begin

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

Alternatively, you can modify the `Nuclear_Silent_ResponseFile.xml` sample file that is provided in the Maximo for Nuclear Power installation image.

Ensure that the values in the response file are valid for the target system. The repository location most correspond to the `NuclearInstallerRepository.zip` file located in the directory where the Maximo for Nuclear Power installation image was extracted. The **installLocation** parameter and the **profile id** parameter must correspond with the existing Maximo Asset Management instance.

Procedure

1. On the computer where the Maximo for Nuclear Power installation image was extracted and the silent response file created, open a command prompt and change directory to the location of the Installation Manager program.

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

2. 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\productname_Silent_ResponseFile.xml  
-log C:\tmp\silent_install_log.xml -acceptLicense
```

3. After Maximo for Nuclear Power 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 | <ol style="list-style-type: none"> From a command line, change the directory to <Install_home>\ConfigTool\scripts, for example: cd c:\IBM\SMP\ConfigTool\scripts. Run the reconfigurePae command. <pre>reconfigurePae -action configureProductsDBLite -preprocessor -buildears</pre> Stop the MAXIMO application. Run the reconfigurePae command. <pre>reconfigurePae -action configureProductsDBLite -updatedb -deploymaximoeear</pre> |
| WebLogic Server | <ol style="list-style-type: none"> From a command line change directory to <Install_home>\ConfigTool\scripts, for example: cd c:\IBM\SMP\ConfigTool\scripts. Run the reconfigurePae command. <pre>reconfigurePae -action configureProductsDBLite -preprocessor -buildears</pre> Stop the MAXIMO application. Run the reconfigurePae command. <pre>reconfigurePae -action configureProductsDBLite -updatedb</pre> Deploy the application EAR files manually to the application server. |

- When the installation and configuration is complete, verify that the Maximo for Nuclear Power component was installed. Log in to Maximo for Nuclear Power and view the system information from the **Help** menu.

Silent mode: Installing the mobile apps

Instead of using the installation programs, you can install the required components and the app by running commands and sample response files.

Before you begin

The response files are provided in the app installation images. One response file is used to install the required components on the Maximo for Nuclear Power computer. The other response file is used to install the mobile app on the Maximo Anywhere computer.

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.

About this task

This silent installation procedure has the same requirements as a non-silent installation of the mobile apps. For more information about the silent installation of Maximo Anywhere, see the IBM Knowledge Center (www.ibm.com/support/knowledgecenter/SSPJLC_7.6.1/com.ibm.si.mpl.doc_7.6.1/install/t_install_maximo_anywhere.html).

To install the required components package, follow the same procedure as the one used to install the Maximo for Nuclear Power package. To install the mobile app, use the following procedure

Procedure

1. On the computer where Maximo for Nuclear Power 7.6.1 is installed, extract the compressed installation image.
2. Open a command prompt and change 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 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, run the following command:

```
imcl input C:\tmp\<app_name>_Silent_ResponseFile.xml  
-log C:\tmp\silent_install_log.xml -acceptLicense
```

4. To install the mobile apps on the computer where Maximo Anywhere is installed, copy the compressed installation images to the target computer.
5. Extract the compressed file and repeat steps 2-3. Replace the response file name in the command with the *<app_name>_App_Silent.xml* file.

Installing help locally

Product help for Maximo for Nuclear Power 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.

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>

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