IBM Maximo Health, Safety and Environment Manager 7.6.1

Version 7 Release 6

Installation Guide



Note
Before using this information and the product it supports, read the information in "Notices" on page 13.

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

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Chapter 1. Planning to deploy IBM Maximo Health, Safety and Environment Manager

IBM® Maximo® Health, Safety and Environment Manager 7.6.1 must be installed with IBM Maximo Asset Management 7.6.0.6.

System requirements for Maximo Health, Safety and Environment Manager

Before you install Maximo Health, Safety and Environment Manager, your environment must meet all of the hardware and software requirements.

Enterprise system

You install Maximo Health, Safety and Environment Manager 7.6.1 on the administrative workstation where Maximo Asset Management 7.6.0.6 is installed.

Mobile app

Before you install the mobile app, you must install IBM Maximo Anywhere 7.6.1 or a later version. Maximo Anywhere includes required components that must be installed on the Maximo Health, Safety and Environment Manager 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 installation, you must deploy another collection of required components on the Maximo Health, Safety and Environment Manager 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).

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Chapter 2. Installing Maximo Health, Safety and Environment Manager

You must install Maximo Health, Safety and Environment Manager in the same program group where Maximo Asset Management is installed.

Before you begin

Ensure that IBM Maximo Asset Management 7.6.0.6 is installed on the computer where you are installing Maximo Health, Safety and Environment Manager 7.6.1.

For more information, see the installation topics for Maximo Asset Management 7.6.0.6 IBM Knowledge Center (www.ibm.com/support/knowledgecenter/SSLKT6_7.6.0.6/com.ibm.mam.doc/welcome.html).

For information about upgrading to Maximo Asset Management 7.6 from an earlier version of Maximo Asset Management, 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 are done using the configuration tool, the Maximo Health, Safety and Environment Manager application starts automatically.

Procedure

1. Download the Maximo Health, Safety and Environment Manager 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 Health, Safety and Environment 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**.

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10. When the installation is complete, verify that the Maximo Health, Safety and Environment Manager component was installed. Log in to Maximo Health, Safety and Environment Manager 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 Health, Safety and Environment Manager to meet 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.

Before you begin

Ensure that the installation of Maximo Health, Safety and Environment Manager is complete.

About this task

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/SSLKT6_7.6.0.5/com.ibm.mam.inswas.doc/install/c_IntroductionToTheCommandLineConfigurationProgram.html).

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 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.

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. If languages other than English are installed on the system, run the following commands:
   - `<install_home>\maximo\tools\maximo\TDToolkit.bat -pmpupdate`*`oilandgas`* `-useexpander`
   - `<install_home>\maximo\tools\maximo\TDToolkit.bat -pmpupdate`*`hse`* `-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`

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 -deploymaximoear
   ```

   On UNIX or Linux systems, run the following commands:

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

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 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	`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.

Installing the Maximo Incident Reporter mobile app

The installation process involves running the installation and configuration programs on one or more computers.

Before you begin

Ensure that you have installed IBM Maximo Anywhere 7.6.1 on the computer where Maximo Health, Safety and Environment Manager is installed.

If you plan to install the Maximo Health, Safety and Environment Manager 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 mobile apps on the build computer, your system requires either the Android, iOS, or Windows development tools.

Note: The Maximo Incident Reporter mobile app is not supported on Windows RT on Tablet. The Maximo Incident Reporter app is not supported on Windows Phones. Windows Tablet OS 8.1 is supported, but Windows Tablet OS 8.0 is not supported.

About this task

A set of required components must be installed on the administrative workstation to extend Maximo Health, Safety and Environment Manager for mobile apps.

Procedure

1. On the Maximo Health, Safety and Environment Manager computer, extract the compressed file that contains the mobile app.
2. From the extracted file, start the launchpad.
3. On the Install IBM Maximo Incident Reporter 7.6.1 pane, click **Install 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. On the launchpad pane for installing the mobile app, click **Install**.
9. Complete the installation wizard.
10. Build and deploy the mobile app by following the instructions in IBM Knowledge Center (www.ibm.com/support/knowledgecenter/SSPJLC_7.6.1/com.ibm.si.mpl.doc/build_deploy/t_ctr_build_deploy_apps.html).

Related information:

Preparing the Maximo Anywhere environment

Maximo Incident Reporter security group

When mobile workers manage records, they must have the authority to use the Maximo® Incident Reporter mobile app. You authorize access to the Maximo Incident Reporter mobile app by adding users to the predefined security group in Maximo Asset Management.

For the Maximo Incident Reporter mobile app, you add the Anywhere Incident Security Group: ANYWHERE_INCIDENT_GROUP.

Related information:

Adding users to the Maximo Anywhere security groups

Installing silently

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

Installing Maximo Health, Safety and Environment Manager silently

Instead of using the installation programs, you can run commands by using a generated response file from the initial installation of Maximo Health, Safety and Environment Manager.

Before you begin

To create a response file during the installation of Maximo Health, Safety and Environment Manager, open a command prompt and set the **record** environment variable to `true`. Then, start the Maximo Health, Safety and Environment Manager 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 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 logfilename-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 -silent -input C:\tmp\HSE_Silent_ResponseFile.xml
-log C:\tmp\silent_install_log.xml -acceptLicense
```

Results

The installation proceeds silently with the values that you provided in the response file. By using different response files as input, you can silently install middleware on separate systems.

Silent mode: Installing the mobile app

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 Health, Safety and Environment Manager 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 app.

Procedure

1. On the computer where Maximo Health, Safety and Environment Manager 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 logfilename -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>_IncidentReporter_Silent_ResponseFile.xml
-log C:\tmp\silent_install_log.xml -acceptLicense
```

4. To install the mobile app 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>_Anywhere_IncidentReporter_App_Silent.xml` file.

Related tasks:

Silent mode: Installing Maximo Anywhere

Enabling the features of Maximo Spatial Asset Management

If a license for Maximo Spatial Asset Management is installed and enabled, you must modify the `oilandgas.xml` file to use the spatial features.

About this task

Modify the `oilandgas.xml` file to add the **Map (Spatial)** tab to the following applications:

- Assets (HSE)
- Locations (HSE)
- Service Requests (HSE)
- Work Order Tracking (HSE)

Procedure

1. Edit the `oilandgas.xml` file to remove the comment tags (`<!--` and `-->`) from each of the following elements:

   ```
   <extendpresentation app='PLUSGWO' baseapp='WOTRACK' product='spatial'>

   <extendpresentation app='PLUSGSR' baseapp='SR' product='spatial'>

   <extendpresentation app='PLUSGASS' baseapp='ASSET' product='spatial'>

   <extendpresentation app='PLUSGLOC' baseapp='LOCATION' product='spatial'>
   ```

   The `oilandgas.xml` file is in the *install_home*`\maximo\applications\maximo\properties\product` directory.
2. Run the following command: **updatedb**
3. Build the EAR file.
4. Deploy the EAR file for your application server:
   - Deploy the EAR file on WebLogic Server.
   - Deploy the EAR file on WebSphere Application Server
5. Grant access to the Maximo Spatial Asset Management options.

Granting access to Maximo Spatial Asset Management options

The system administrator or the group of users who use Maximo Spatial Asset Management must have access to the Maximo Spatial Asset Management options. You grant access rights in the Security Groups application.

Before you begin

Maximo Health, Safety and Environment Manager and Maximo Spatial Asset Management must be installed. Additionally, the features of Maximo Spatial Asset Management must be enabled.

Procedure

1. Log in to Maximo Asset Management, and access the **Security** > **Security Groups**.
2. In the **Find** field, type the MAXADMIN user group. The Group tab displays along with the group information.
3. Click the **Applications** tab.
4. Filter on the Assets (HSE) application and grant access for the following options:
   a. Master Work Order And One Work Order for Each Record
   b. Service Request With All Records
   c. Spatial Edit Tool
   d. Spatial Link Tool
   e. Work Order for Each Record
   f. Work Order for All Records
5. Save the record.
6. Filter on the Locations (HSE) application and grant access for the following options:
   a. Master Work Order And One Work Order for Each Record
   b. Service Request With All Records
   c. Spatial Edit Tool
   d. Spatial Link Tool
   e. Work Order for Each Record
   f. Work Order for All Records
7. Save the record.
8. Filter on the Work Order Tracking (HSE) application and grant access for the following options:
   a. Auto-Create WO (Spatial)
   b. Spatial Edit Tool
   c. Spatial Link Tool
9. Save the record.
10. Sign out of the Maximo Asset Management session and log in again.

Results

The Maximo Spatial Asset Management options are shown in the Assets (HSE), Locations (HSE) , Service Requests (HSE) , and Work Order Tracking (HSE) applications.

Installing help locally

Product help for Maximo Health, Safety and Environment Manager 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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