Installation Guide
This edition applies to Release 6.3 of IBM Maximo for Oil and Gas and to all subsequent releases and modifications until otherwise indicated in new editions. This edition replaces any previous edition of this document.

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About This Publication

This section explains how this guide can help you to use IBM® Maximo® for Oil and Gas (Oil & Gas). It also provides information about other IBM Corporation resources available to you, such as additional documentation and support.

Intended Audience

If you are the system administrator, network administrator, or other professional who installs IBM Maximo for Oil and Gas, read this guide to install Oil & Gas properly into your Maximo 6 installation.

Related Information

For more information about Oil & Gas and Maximo, refer to the following documentation:

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<tr>
<td>IBM Maximo for Oil and Gas User’s Guide Addendum</td>
<td>The User’s Guide Addendum is a separate document delivered in Adobe® Systems’ Portable Document Format (PDF) with the product software. Use this along with the standard IBM Maximo documentation set.</td>
</tr>
<tr>
<td>IBM Maximo Online Help for Oil &amp; Gas</td>
<td>Provides step by step instructions for Oil &amp; Gas applications.</td>
</tr>
<tr>
<td>IBM Maximo Finance Manager’s Guide</td>
<td>Describes how IBM Maximo completes financial transactions and how to set up general ledger accounts.</td>
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<tr>
<td>IBM Maximo Installation Guide</td>
<td>Describes how to install and configure the following software:</td>
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<td></td>
<td>▼ Application server</td>
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<td>▼ IBM Maximo</td>
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<td>IBM Maximo Multisite Administrator’s Guide</td>
<td>Describes how to configure IBM Maximo for a Multisite implementation.</td>
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IBM Software Support provides assistance with product defects.

Before contacting IBM Software Support, your company must have an active IBM software maintenance contract, and you must be authorized to submit problems to IBM. For information about the types of maintenance contracts available, see "Enhanced Support," in the Software Support Handbook at techsupport.services.ibm.com/guides/services.html.

Complete the following steps to contact IBM Software Support with a problem:

1. Define the problem, gather background information, and determine the severity of the problem. For help, see the "Contacting IBM," in the Software Support Handbook at techsupport.services.ibm.com/guides/beforecontacting.html.

2. Gather diagnostic information.
3 Submit your problem to IBM Software Support in one of the following ways:

a Online: Click **Submit and track problems** on the IBM Software Support site at [www.ibm.com/software/support/probsub.html](http://www.ibm.com/software/support/probsub.html).

b By telephone: For the telephone number to call in your country, go to the Contacts page of the IBM Software Support Handbook at [techsupport.services.ibm.com/guides/contacts.html](http://techsupport.services.ibm.com/guides/contacts.html).

If you submit a problem that is a software defect or for missing or inaccurate documentation, IBM Software Support creates an Authorized Program Analysis Report (APAR). The APAR describes the problem in detail.

Whenever possible, IBM Software Support provides a workaround that you can implement until the APAR is resolved and a fix is delivered. IBM publishes resolved APARs on the Software Support Web site daily, so that other users who experience the same problem can benefit from the same resolution.
This guide takes you through the steps to install IBM Maximo for Oil and Gas (Oil & Gas) on a pre-configured Maximo 6.2.1 or later system.

This chapter describes what you must know before installing the application and briefly describes the features provided by the Oil & Gas applications.

The Oil & Gas CD contains one Actuate report. For information about how to install the report, see “Installing the Actuate Encyclopedia,” on page 3-1.

Installation Qualifications

Installing Oil & Gas requires system administrator rights and privileges, and a system administrator. To install Oil & Gas, be familiar with the following tasks and technology:

- Performing PC installation tasks, such as creating folders, editing files, and running scripts
- Using utilities such as Enterprise Manager or any database editor such as SQL*Plus for IBM DB2® or Oracle® database servers
- Using RDBMS system administration privileges

Oil & Gas Overview

Oil & Gas provides functionality for regulatory compliance, matrix-based prioritization, and forward planning of work according to plant conditions.

Maximo provides these features in the following Oil & Gas-specific applications:

- Benefits and Losses (Oil)
- Condition for Work (Oil)
- Defects (Oil)
- Improvements (Oil)
- Investigations (Oil)
- Regulatory Compliance (Oil)
- Prioritization Matrix (Oil)

Note: Oil & Gas-specific application names contain “(Oil)”. 
In order to support the new Oil & Gas applications, Maximo contains the following cloned applications:

- Assets (Oil)
- Job Plans (Oil)
- Incidents (Oil)
- Locations (Oil)
- Organizations (Oil)
- People (Oil)
- Preventive Maintenance (Oil)
- Quick Reporting (Oil)
- Routes (Oil)
- Work Order Tracking (Oil)

If you customized any of the core Maximo applications that the clones are based on, you must make the same customizations to the cloned applications after you install Oil & Gas.
Installing Oil & Gas

This chapter describes how to install and configure Oil & Gas and provides important information that you must know before you install Oil & Gas.

Installation Checklist

This checklist provides an overview of the installation process. Detailed instructions begin on the next page.

CAUTION Perform this update in a test environment before you update your production environment.

[ ] 1 Determine current software version.

[ ] 2 Stop the Maximo application servers and services.

[ ] 3 Back up your entire <Maximo> folder.

[ ] 4 Back up your database.

[ ] 5 Install Oil & Gas.

[ ] 6 Install Maximo Oil & Gas license files.

[ ] 7 Rebuild the EAR files.

[ ] 8 Restart the Maximo application server.

[ ] 9 Deploy the EAR files.
Installation Procedures

The following procedures explain how to install Oil & Gas.

Determine Current Software Version

Your Maximo system must include Maximo 6.2.1 before you install Oil & Gas.

Stop the Maximo Application Server

Before you install Oil & Gas, have all users exit Maximo. Stop all Maximo Application servers and services, and exit all other programs.

Create Backups

Before you install Oil & Gas, back up both your entire <Maximo> folder and your database.

Update DB2 Database Parameters

If you are running Oil & Gas on a DB2 database platform, perform the following procedure before installing this Industry Solution. The database settings that you modify with this procedure facilitate the upload of Oil & Gas data into your database. To do so, complete the following steps:

1. Sign in to the Maximo database using the DB2 Command Editor. Enter a user ID that has DBA privileges, for example, DB2ADMIN.

2. Copy and paste the following SQL statements into the top pane of the Command Editor tool.

   ```sql
   UPDATE DATABASE CONFIGURATION USING APPGROUP_MEM_SZ 11595;
   UPDATE DATABASE CONFIGURATION USING CATALOGCACHE_SZ 761;
   UPDATE DATABASE CONFIGURATION USING CHNGPQS_THRESH 5;
   UPDATE DATABASE CONFIGURATION USING LOGBUFSZ 205;
   UPDATE DATABASE CONFIGURATION USING DBHEAP 1837;
   UPDATE DATABASE CONFIGURATION USING LOCKLIST 2075;
   UPDATE DATABASE CONFIGURATION USING LOGFILSZ 66384;
   UPDATE DATABASE CONFIGURATION USING LOGPRIMARY 34;
   UPDATE DATABASE CONFIGURATION USING LOGSECOND 3;
   UPDATE DATABASE CONFIGURATION USING MAXAPPL 40 MAXLOCKS 60;
   UPDATE DATABASE CONFIGURATION USING MINCOMMIT 1;
   UPDATE DATABASE CONFIGURATION USING NUM_IOCLEANERS 4;
   UPDATE DATABASE CONFIGURATION USING NUM_IOSERVERS 7;
   UPDATE DATABASE CONFIGURATION USING PCKCACHESZ 859;
   UPDATE DATABASE CONFIGURATION USING SOFTMAX 1360;
   UPDATE DATABASE CONFIGURATION USING SORTHEAP 1153;
   UPDATE DATABASE CONFIGURATION USING STMTHEAP 10000;
   UPDATE DATABASE CONFIGURATION USING DFT_DEGREE 1;
   UPDATE DATABASE CONFIGURATION USING DFT_PREFETCH_SZ 32;
   UPDATE DATABASE CONFIGURATION USING UTIL_HEAP_SZ 70122;
   UPDATE DATABASE MANAGER CONFIGURATION USING SHEAPTHRES 23061;
   UPDATE DATABASE MANAGER CONFIGURATION USING INTRA_PARALLEL OFF;
   ```
UPDATE DATABASE MANAGER CONFIGURATION USING MAX_QUERYDEGREE 2;
UPDATE DATABASE MANAGER CONFIGURATION USING MAXAGENTS 200;
UPDATE DATABASE MANAGER CONFIGURATION USING NUM_POOLAGENTS 200;
UPDATE DATABASE MANAGER CONFIGURATION USING NUM_INITAGENTS 0;
UPDATE DATABASE MANAGER CONFIGURATION USING FCM_NUM_BUFFERS 1024;
UPDATE DATABASE MANAGER CONFIGURATION USING PRIV_MEM_THRESH 32767;

ALTER BUFFERPOOL IBMDEFAULTBP SIZE 1592;
ALTER BUFFERPOOL <MAXIMOBUFFERPOOL> SIZE 26097;
SET CURRENT QUERY OPTIMIZATION = 5;
COMMIT;
CONNECT RESET;

3 Run the query from Step 2. It can take two to five minutes to complete this process.

4 Open a separate Command Prompt window and type the following command in any directory:

db2empfa <database_name>

Example
C:\db2empfa MAXIMO

Install Oil & Gas

NOTE If you have multiple Maximo folders or directories, install Oil & Gas once for each Maximo folder or directory.

To do this task, complete the following steps:

1 Insert the Oil & Gas CD into the CD-ROM drive.

2 Browse the CD-ROM to choose installs/oilandgas and run mxesong63.exe.

3 Follow the on-screen instructions.

NOTE Installation stops if Maximo 6.2.1 has not been installed.

4 To ensure that you run the latest release of Oil & Gas, run the PowerUpdate utility near the end of the installation. The PowerUpdate program checks for and retrieves available updates.

5 Open a DOS window and change directory to <Maximo>/tools/maximo.

6 Run updatedb.bat to update your database with the changes that Oil & Gas requires.
Installation Procedures

Installing Maximo Oil & Gas License Files

Load the Oil & Gas Product Enabler CD and run setup.exe to install the required license files.

Build EAR Files

Rebuild your maximo.ear and maximohelp.ear files. For more information about building EAR files, refer to your IBM Maximo Installation Guide.

Restart the Application Server and Deploy EAR Files

Restart the Maximo application server and redeploy your EAR files in order for the Oil & Gas changes to be available to users. For information about how to deploy EAR files, refer to your IBM Maximo Installation Guide.
This chapter describes how to install the Actuate Encyclopedia for your Oil & Gas installation.

Actuate Installation Checklist

The following checklist summarizes the installation process. Detailed instructions begin on the next page.

**CAUTION** Install the Actuate Encyclopedia in a test environment before you install to your production environment.

[ ] 1 Back up your report encyclopedia folder.
[ ] 2 Run the Oil & Gas reports installation.
[ ] 3 Take the Actuate Reports Volume offline.
[ ] 4 Import the Oil & Gas Encyclopedia.
[ ] 5 Bring the Actuate Reports Volume online.

Installation Procedure

The following procedure describes how to install the Encyclopedia for Oil & Gas.

Install Oil & Gas

Install Oil & Gas before you install the Actuate report. For more information, see “Installation Procedures,” on page 2-2.

Back Up Report Encyclopedia

Back up your report encyclopedia before you install the Oil & Gas report.
Installing the Report

To install the report, complete the following steps:

1. Insert the Maximo Oil & Gas CD into the CD-ROM drive on the computer where Actuate iServer is installed.

2. In the installs\reports folder, browse to the folder that matches the name of your operating system and run the executable file.

3. Follow the on-screen instructions.

**NOTE**

If you choose IBM DB2 Universal Database 8.2.7 as the database type, the reports Encyclopedia are installed under the folder `<ACTUATE8>/mxesong/db2_export/export`, where `<ACTUATE8>` is the folder where Actuate 8.3 is installed on your computer.

If you choose Oracle as the database type, the reports Encyclopedia are installed under the folder `<ACTUATE8>/mxesong/oracle_export/export`, where `<ACTUATE8>` is the folder where Actuate 8.3 is installed on your computer.

4. If your Maximo and Actuate iServers are running, shut them both down.

5. Restart Maximo Server and then restart the Actuate iServer.

Take Actuate Reports Volume Offline

After you complete the preceding procedure, complete the following steps:

1. Log in to Actuate Management console (acadmin console) as System Administrator.

2. Click Stop to take Reports Volume offline.

**CAUTION**

Do not shut down the Actuate Service.

Import Oil & Gas Encyclopedia

Use the appropriate procedure to import the Encyclopedia for Oil & Gas.

**NOTE**

For more information about how to import reports, see "Importing the Encyclopedia," in your *IBM Maximo Installation Guide*.

**AIX**

To install the Oil & Gas Encyclopedia on AIX®, complete the following steps:

1. Open a shell window.

2. In this shell set the following environment variables:

   a. `CLASSPATH=<PathToActuate8Folder>/bin/iServer.jar:<PathToActuate8Folder>/bin`
Installation Procedure

Example:

CLASSPATH="/home/mxadim/AcServer/bin/iServer.jar:/home/mxadmin/AcServer/bin"
export CLASSPATH

b  LIBPATH="<PathToActuate8Folder>/lib" for example:

   LIBPATH="/home/mxadmin/AcServer/lib"
   export LIBPATH

c  ICU_DATA="<PathToActuate8Folder>/lib" for example:

   ICU_DATA="/home/mxadmin/AcServer/lib"
   export ICU_DATA

3  Change path to <ACTUATE8>/AcServer/bin folder.

4  Enter the following command to import the encyclopedia:

   ./acimport -all -force -username <user_Maximo_Administrator> -password <pwd_Maximo_Administrator> -input <path to the exportfiles>

Example:

   ./acimport -all -force -username maxadmin -password maxadmin -input /home/mxadmin/AcServer/mxesong/db2_export/export

Solaris

To install the Oil & Gas Encyclopedia on Solaris, complete the following steps:

1  Open a shell window.

2  In this shell set the following environment variables:

   a  CLASSPATH="<PathToActuate8Folder>/bin/
iServer.jar:<PathtoActuate8Folder>/bin"

Example:

   CLASSPATH="/home/mxadim/AcServer/bin/iServer.jar:/home/mxadmin/AcServer/bin"
   export CLASSPATH

b  LIBPATH="<PathToActuate8Folder>/lib" for example:

   LIBPATH="/home/mxadmin/AcServer/lib"
   export LIBPATH

c  ICU_DATA="<PathToActuate8Folder>/lib" for example:

   ICU_DATA="/home/mxadmin/AcServer/lib"
   export ICU_DATA

3  Change path to <ACTUATE8>/AcServer/bin folder.

4  Enter the following command to import the encyclopedia:

   ./acimport -all -force -username <user_Maximo_Administrator> -password <pwd_Maximo_Administrator> -input <path to the exportfiles>
Installation Procedure

Example:

./acimport -all -force -username maxadmin -password maxadmin -input /home/mxadmin/AcServer/mxesong/db2_export/export

Microsoft® Windows

To install the Oil & Gas Encyclopedia on Microsoft Windows, complete the following steps:

1. Open a DOS prompt.
2. Change path to <ACTUATE8>/iServer/bin folder.
3. Enter the following command to import the Encyclopedia:
   acimport -all -force -username <user_Maximo_Administrator> -password <pwd_Maximo_Administrator> -input <path to the exportfiles>

Example:

acimport -all -force -username maxadmin -password maxadmin -input c:\Actuate8\iServer\mxesong\db2_export\export

Bring Actuate Reports Volume Online

To bring Actuate Reports Volume online, complete the following steps:

1. Log in to Actuate Management console (acadmin console) as System Administrator.
2. Click Start to restart Reports Volume.

Check Added Reports

To check that you have successfully installed the Oil & Gas Encyclopedia, open Actuate End User Desktop Application and look in the rpt folder.

The rpt folder contains the following new folder and report:

<table>
<thead>
<tr>
<th>Folder Name</th>
<th>Report Name</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLUSGRFW</td>
<td>Priority Matrix Report</td>
<td>Prioritization Matrix (Oil)</td>
</tr>
</tbody>
</table>

To check that you added the new report to the Encyclopedia and that users have access privileges, open the Actuate Management Console and check the settings.

For more information about reports, see the IBM Maximo Report Administration and Development Guide.

NOTE

As the Actuate Reports administrator, you must set up Actuate further to run reports properly.

For more information about enabling reports, refer to your IBM Maximo Installation Guide.
Modify Reports

To modify the Actuate Report for Oil & Gas, you can copy the source files from the Oil & Gas CD.

You can find the report source in the following location:

    installs/report_source
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