Oracle Utilities Energy Information Platform

Release Notes for:
Oracle Utilities Billing Component
Oracle Utilities Load Profiling and Settlement
Oracle Utilities Meter Data Management
Oracle Utilities Portfolio Management
Oracle Utilities Quotations Management
Oracle Utilities Rate Management
Oracle Utilities Transaction Management

Release 1.6.1.23 for Windows

December 2018
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These release notes describe enhancements, installation information, upgrade notices, and de-support information for Oracle Utilities Energy Information Platform Version 1.6.1.23 and the following related products:

- Oracle Utilities Billing Component
- Oracle Utilities Load Profiling and Settlement
- Oracle Utilities Meter Data Management
- Oracle Utilities Portfolio Management
- Oracle Utilities Quotations Management
- Oracle Utilities Rate Management
- Oracle Utilities Transaction Management

These release notes supplement the Oracle Utilities product documentation and include updated information about this release. Refer to those manuals when installing these products. These release notes contain the following:

- Installation and System Configuration Information
  - Database Schema Versions
  - Functional Changes
  - Recommendations and Warnings
- De-Support Notices
- De-Supported Platforms in Version 1.6.1.23
Installation and System Configuration Information

This section outlines specific topics related to installation and configuration of the Energy Information Platform and related products.


- Though not typical, there is a potential conflict between the Java Runtime Engine (JRE) installed by Oracle Utilities and the JRE installed by Oracle. This conflict can be avoided by ensuring that the path to the Oracle Utilities-installed JRE is listed before the path to the Oracle JRE in the "Path" System variable.

- This release supports Microsoft Internet Information Services (IIS) versions 7.5 (7.5.7600) or 8.5.

- This release supports Oracle database version 12.2.0.1.

- When configuring Microsoft Internet Information Services (IIS) on Windows 2012, use "ASP.NET v4.5 Classic" as the Application Pool (for Windows 2008 use "ASP.NET v4.0 Classic").

Database Schema Versions

The version numbering for all Oracle Utilities Data Repository database schemas has been changed to use a consistent numbering for all products. The table below lists the prior schema version numbers for the Energy Information Platform and each related product and the current schema version numbers as of this release.

<table>
<thead>
<tr>
<th>Product</th>
<th>Prior Schema Version(s)</th>
<th>v1.6.0 Schema Version</th>
<th>v1.6.1 Schema Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Information Platform</td>
<td>v5.42.017</td>
<td>v1.6.0.0.0</td>
<td>v1.6.1.22.0</td>
</tr>
<tr>
<td>Oracle Utilities Billing Component</td>
<td>v2.42.014 (Contracts)</td>
<td>v1.6.0.0.0</td>
<td>v1.6.1.0.0</td>
</tr>
<tr>
<td></td>
<td>v5.42.003 (Receivables)</td>
<td>v1.6.0.0.0</td>
<td>v1.6.1.2.0</td>
</tr>
<tr>
<td></td>
<td>v5.42.001 (Workflow)</td>
<td>v1.6.0.0.0</td>
<td>v1.6.1.0.0</td>
</tr>
<tr>
<td>Oracle Utilities Load Profiling and Settlement</td>
<td>v3.42.013</td>
<td>v1.6.0.0.0</td>
<td>v1.6.1.21.0</td>
</tr>
<tr>
<td>Oracle Utilities Meter Data Management</td>
<td>v3.42.035</td>
<td>v1.6.0.0.0</td>
<td>v1.6.1.22.0</td>
</tr>
<tr>
<td>Oracle Utilities Portfolio Management</td>
<td>v2.42.001</td>
<td>v1.6.0.0.0</td>
<td>v1.6.1.0.0</td>
</tr>
<tr>
<td>Oracle Utilities Quotations Management</td>
<td>v2.42.014 (Contracts)</td>
<td>v1.6.0.0.0</td>
<td>v1.6.1.0.0</td>
</tr>
<tr>
<td></td>
<td>v2.42.002 (Usage)</td>
<td>v1.6.0.0.0</td>
<td>v1.6.1.1.0</td>
</tr>
<tr>
<td>Oracle Utilities Rate Management</td>
<td>N/A*</td>
<td>N/A*</td>
<td>N/A*</td>
</tr>
<tr>
<td>Oracle Utilities Transaction Management</td>
<td>v4.42.009</td>
<td>v1.6.0.0.0</td>
<td>v1.6.1.0.0</td>
</tr>
</tbody>
</table>

*Oracle Utilities Rate Management uses the Energy Information Platform database and does not require database updates.
Functional Changes

This section outlines changes in functionality in this release of the Energy Information Platform and related products. This includes:

• Interval Data Graphs
• Adapter Rule Description Language Mapping
• DEPRECATED NOTICE - Crystal Reports
• Oracle Utilities Receivables Component Reports
• Install MSMXL Version 6
• JDBC Driver No Longer Provided with Installation
• DEPRECATED NOTICE - Web Services
• DEPRECATION NOTICE - Meter Commands
• DEPRECATION NOTICE - BPEL Web Services
• DEPRECATION NOTICE - Oracle Utilities Rules Language Server
• Using Oracle Business Intelligence Publisher with the Reporting Framework

Interval Data Graphs
The components used to display interval data graphs have been updated to use the Oracle Java Extension Toolkit (Oracle JET). The use and operation of these graphs has not been changed.

Adapter Rule Description Language Mapping
The Adapter Rule Description Language Configuration screen has been updated to use the Oracle Java Extension Toolkit (Oracle JET). This change has resulted in minor changes to the way in which mappings are created. The Oracle Utilities Energy Information Platform User’s Guide has been updated to reflect these changes.

DEPRECATED NOTICE - Crystal Reports
Crystal Reports has been deprecated and is no longer supported as of release v1.6.1.22.

Oracle Utilities Receivables Component Reports
Oracle Utilities Receivables Component reports have been converted to run using Oracle BI Publisher. See Chapter 10: Reports in the Oracle Utilities Billing Component Installation and Configuration Guide, Volume 2 for more information.

Install MSMXL Version 6
Release v1.6.1.19 and earlier use MSXML v4. Release v1.6.1.20 and later require MSXML v6. Upgrading the Oracle Utilities Energy Information Platform and related products to this release (v1.6.1.20) or later requires installing MSMXL v6.

Note: MSXML6 is installed by default in Windows 2012.

For Windows 2008 servers, use the following procedure:

   Download the installer from this location
2. Click Download.
3. Select "msxml6.msi" and click Next.
4. After the download is complete, double-click on the "msxml6.msi" to install.
5. To verify the installation, open a command prompt, navigate to `c:\windows\system32`, and type "dir msxml*".

**JDBC Driver No Longer Provided with Installation**

As of the v1.6.1.18 release the JDBC driver used by the Energy Information Platform Adapter and Oracle Utilities Meter Data Management is no longer provided as part of the installation. For this and future releases, the JDBC driver must be downloaded and installed manually.

The following steps must be performed on each server that will run the Adapter and/or the Meter Data Management application.

1. Download the driver appropriate to your database and application version. The table below specifies the JDBC driver version (and related jar file) based on both the version of the application and the Oracle Database version.

<table>
<thead>
<tr>
<th>EIP Version</th>
<th>Oracle 11g</th>
<th>Oracle 12c</th>
</tr>
</thead>
<tbody>
<tr>
<td>v1.6.1.17 (or prior)</td>
<td>v1.6</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>ojdbc6.jar</td>
<td></td>
</tr>
<tr>
<td>v1.6.1.18 to v1.6.1.21</td>
<td>v1.6</td>
<td>v1.7</td>
</tr>
<tr>
<td></td>
<td>ojdbc6.jar</td>
<td>ojdbc7.jar</td>
</tr>
<tr>
<td>v1.6.1.22 (or later)</td>
<td>v1.6</td>
<td>v1.8</td>
</tr>
<tr>
<td></td>
<td>ojdbc6.jar</td>
<td>ojdbc8.jar</td>
</tr>
</tbody>
</table>

2. Place the driver in a known location on the server (such as `c:\JDBC`).

3. Update the batch files for Adapter Monitor and Adapter Server startup:

**For versions prior to 1.6.1.18:**

a. Open the LTMH\Runtime directory and edit the `LTMH_Setup.bat` file in a text editor

b. Look for the following line:

   ```
   set JDBC_CP=%LTMH_LIB%\ojdbc14.jar;%LTHM_LIB%\jtds-1.0.2.jar
   ```

c. Update this line to point to the full path of the JDBC driver downloaded above:

   ```
   set JDBC_CP=C:\JDBC\ojdbc6.jar
   ```

   Save the file.

**For versions 1.6.1.18 through v1.6.1.21:**

a. Open the LTMH\Runtime directory and edit the `LTMH_JDBC.bat` file in a text editor

b. Look for the following line:

   ```
   set JDBC_CP=%LTMH_LIB%\ojdbc14.jar;%LTHM_LIB%\jtds-1.0.2.jar
   ```

c. Update this line to point to the full path of the JDBC driver downloaded above:

   For Oracle 11G:
   ```
   set JDBC_CP=C:\JDBC\ojdbc6.jar
   ```

   For Oracle 12c:
   ```
   set JDBC_CP=C:\JDBC\ojdbc7.jar
   ```

   Save the file.

**For versions 1.6.1.22 and later:**

a. Open the LTMH\Runtime directory and edit the `LTMH_JDBC.bat` file in a text editor

b. Look for the following line:
set JDBC_CP=%LTMH_LIB%\ojdbc14.jar;%LTHM_LIB%\jtds-1.0.2.jar

c. Update this line to point to the full path of the JDBC driver downloaded above:

For Oracle 11G:
set JDBC_CP=C:\JDBC\ojdbc6.jar

For Oracle 12c:
set JDBC_CP=C:\JDBC\ojdbc8.jar

Save the file.

4. Log into the Energy Information Platform and update the Class Path field on all System Properties records to include the full path to the file you downloaded above. For example, append ";C:\JDBC\ojdbc8.jar" to each record. No other JDBC driver references should exist in the Class Path field.

Note: You must restart the Adapter Server for these changes to take effect.

DEPRECATED NOTICE - Web Services
The Oracle Utilities Energy Information Platform and Meter Data Management web services have been deprecated and are no longer supported as of release v1.6.1.20.

DEPRECATION NOTICE - Meter Commands
The Meter Commands feature of Oracle Utilities Meter Data Management has been deprecated and is no longer supported.

DEPRECATION NOTICE - BPEL Web Services
The Oracle Utilities Meter Data Management Business Process Execution Language (BPEL) Web Services have been deprecated and are no longer supported.

DEPRECATION NOTICE - Oracle Utilities Rules Language Server
The Oracle Utilities Rules Language Server, a component used by previous versions of Oracle Utilities Meter Data Management has been deprecated and is no longer supported.

The functionality formerly provided by this component has been replaced by the new "MDMPORTAL" Adapter runtime service type. See Activating an MDMPORTAL Service on page 3-9 in the Oracle Utilities Meter Data Management Installation and Configuration Guide for more information about using the "MDMPORTAL" Adapter runtime service type.

Using Oracle Business Intelligence Publisher with the Reporting Framework
In this release, when using Oracle Business Intelligence Publisher with the Reporting Framework, the LSReportMonitor.cfg.xml configuration file must be updated to specify the version of Oracle Business Intelligence Publisher being used.

The Oracle Business Intelligence Publisher version is specified via the <VERSION> element within the <BI_PUBLISHER> element in the LSReportMonitor.cfg.xml configuration file.

This release supports Oracle Business Intelligence Publisher version 10.1.3.4 and version 11.1.1.5.

• To specify use of Oracle Business Intelligence Publisher version 10.1.3.4, enter a value of “10” in the <VERSION> element.

• To specify use of Oracle Business Intelligence Publisher version 11.1.1.5, enter a value of “11” in the <VERSION> element.

LSREPORTMONITOR.CFG.XML Example

```xml
<LSREPORTMONITOR>
...
<BI_PUBLISHER>
```
Recommendations and Warnings

This section outlines recommendations and warnings related functionality in the Energy Information Platform and related products. This includes:

- Web Services and Rules Language Processing
- Configuring Stateless Non-Sticky Sessions in Windows 2008

Web Services and Rules Language Processing

Oracle Utilities recommends **against** using web service interfaces with Adapter Business Rules of type Rate (i.e. calling a Rules Language process). These web services have not been designed to be scalable when used to execute Rules Language processing, and are not suitable for use in a production environment. Using Adapter Business Rule (ABR) web services in this way is **not supported**. Only Adapter Runtime Service (ARS) web services are supported when executing Rules Language processing via a web service.

Configuring Stateless Non-Sticky Sessions in Windows 2008

Lodestar application servers are stateless in terms of deployment in a web farm environment. In a web farm deployment, there are multiple installations of the web application server on different machines. In order to support load balancing without the use of "sticky" sessions, all the installed web applications need to share the same security Machine Key. Below is the process of generating a standard IIS Machine Key and applying it to all web application servers in a web farm.

**How to configure stateless non-sticky sessions in Windows 2008:**

1. Select Start-›Administrative Tools-›Internet Information Services (IIS) Manager on the first web application server in the web farm.
2. Select the "lodestar" web application in the **Connections** pane. This located as follows: [SERVER] / Sites / Default Web Site / lodestar
3. Double-click the **Machine Keys** icon in the ASP.NET pane.
   The **Machine Key** pane displays the machine key settings for the application server.
4. Create a random machine key for the web application server.
   a. Click **Generate Keys** in the **Actions** pane (to the right of the Machine Key pane)Click **Generate Keys** in the **Actions** pane (to the right of the Machine Key pane).
   b. Click **Apply** in the **Actions** pane.
      The new machine keys are stored in the following section of the web.config file in the \lodestar\web directory.
      ```xml
      <system.web>
      ...
      <machineKey decryption="AES"
        decryptionKey="EF5C ... 0850"
        validationKey="24E3 ... ... ... B6CC" />
      ...
      ```
c. Copy the <machineKey> element to a text document. You will use this to update your other web application servers.

4. Apply the new machine keys to the other web application servers. For each application server:
   a. Open the web.config file in a text editor.
   b. Insert or replace the <machineKey/> element in this file with the element from the original file.
   b. Save the web.config file and restart IIS.

Upgrade Recommendations

Some components and functionality has changed in the v1.6 release of Energy Information Platform and related products. As a result, unexpected results may occur when using certain types of data from pre-v1.6 versions with the current version.

This section outlines recommendations when upgrading the Energy Information Platform and related products.

Updating Lists

The table-column and account/customer list functionality changed in v1.6 of the Energy Information Platform. As a result, some lists created in pre-v1.6 versions may behave in an unexpected manner when used in v1.6+ versions.

When upgrading from v1.5 or previous versions, Oracle Utilities recommends exporting all table-column and account/customer lists from the pre-v1.6 environment, and then importing the lists into the v1.6+ environment.
De-Support Notices

This section highlights platforms that are either no longer supported in this release or that will not be supported in future releases of the Energy Information Platform and related products. This includes:

- De-Supported Platforms in Version 1.6.1.23

De-Supported Platforms in Version 1.6.1.23

The following previously supported platforms are not supported in this release of Oracle Utilities Energy Information Platform and related products:

- MS SQL Server 2008
- Windows Enterprise Server 2003
- Windows XP
- Windows Vista
- Internet Explorer 8
- Oracle 10g
- Pervasive PSQL Server Summit (all versions)
- Crystal Reports 2008