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PRIMAVERA

**Connecting Oracle Identity Manager 11g to P6
Release 15.1**

March 2015

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Introduction

This document assists administrators in configuring Oracle Identity Manager (OIM) to use with P6 EPPM. OIM is an enterprise identity management system that centrally administers user accounts and access privileges. It manages the entire user identity lifecycle to help your organization meet changing business and regulatory requirements and provides essential auditing, reporting, and compliance functionality.

About Connecting Oracle Identity Manager 11g to P6

The OIM connector includes a resource directory with all user attributes and two files—a JAR file to communicate with P6 EPPM and a dynamically generated XML file representing P6 users and their properties.

As an administrator, you can take advantage of the OIM connector to provision P6 EPPM users. With the help of P6 EPPM Web Services, the OIM connector helps you administer the complete user identity life cycles of P6 users. As a primary example, when you create a new user in OIM, it will also create a new user with the same user login name, password, email address, and personal name in the P6 EPPM database.

The core attributes and operations supported by the connector are listed below.

Attributes

The following user attributes are managed:

- ▶ Login Name
- ▶ Password
- ▶ E-mail Address
- ▶ Personal Name

Operations

The following operations are supported:

- ▶ Create User: Add a new user in P6 via OIM.
- ▶ Modify User: Modify an attribute, such as an e-mail address or personal name, in P6 via OIM.
- ▶ Delete User: Remove a user in P6 via OIM.

Installing the OIM 11g Applications

Follow the steps below to install OIM and the other applications needed to use OIM:

- 1) Install Oracle Identity Manager (OIM). Refer to the following URL for documentation specific to this release:
http://download.oracle.com/docs/cd/E14571_01/install.1111/e12002/install001.htm#CIHEJII G
- 2) After installing and configuring the Oracle Identity Manager Server for the first time, you must start the Oracle Identity Manager Managed Server. For information about starting the server, see "Starting the Stack"
(http://download.oracle.com/docs/cd/E14571_01/install.1111/e12002/start_stop001.htm#CH DDIFCD) in the Oracle Identity Manager documentation
(http://download.oracle.com/docs/cd/E14571_01/install.1111/e12002/oidonly009.htm).
- 3) Install P6 and P6 EPPM Web Services. Check that you have OIM, P6, and P6 EPPM Web Services up and running before moving on to the next step. P6 EPPM Web Services must be configured to run in cookie-based authentication mode.
- 4) Download the Oracle Identity Manager Connector for Primavera P6.
- 5) Extract the ZIP archive.
- 6) Copy the following Primavera-P6-EPPM.properties files to the **<IDM_Home>\server\connectorResources** directory:
 - ▶ Primavera-P6-EPPM.properties
 - ▶ Primavera-P6-EPPM_de.properties
 - ▶ Primavera-P6-EPPM_en.properties
 - ▶ Primavera-P6-EPPM_en_US.properties
 - ▶ Primavera-P6-EPPM_es_MX.properties
 - ▶ Primavera-P6-EPPM_fr.properties
 - ▶ Primavera-P6-EPPM_ja.properties
 - ▶ Primavera-P6-EPPM_pt_BR.properties
 - ▶ Primavera-P6-EPPM_ru.properties
 - ▶ Primavera-P6-EPPM_zh_CN.properties
 - ▶ Primavera-P6-EPPM_zh_TW.properties
- 7) Copy **primavera-p6eppm-prov.jar** to the **<IDM_Home>\server\JavaTasks** directory.
- 8) Copy **p6ws-jaxws-client.jar** to the **<IDM_Home>\server\ThirdParty** directory.

Note: The p6ws-jaxws-client.jar is not included in the OIM Connector ZIP archive; it is in the P6 EPPM Web Services client folder (for example, *P6EPPM_HOME\ws\client*).

- 9) Save **PrimaveraP6EPPMProvOIM11gR2.xml** to a local drive.
- 10) (Only if applicable; otherwise, skip this step.) If you are using a WebLogic application server and the default settings are unsuccessful after first skipping this step:
In Windows:

- a. Edit the **StartWebLogic.cmd** file located in **weblogic_home\user_projects\domains\your_domain\bin** directory.
- b. Add **<IDM_HOME>\server\ThirdParty\p6ws-jaxws-client.jar** as part of the **CLASSPATH**.
For example:
set
CLASSPATH=<IDM_HOME>/server/ThirdParty/p6ws-jaxws-client.jar;%SAVE_CLASSPATH%
where <IDM_HOME> is your IDM home directory (for example, C:\oracle\Middleware\Oracle_IDM1)
- c. Copy the **p6ws-jaxws-client.jar** to the **weblogic_home\user_projects\OIM_domain\lib** directory.

In Unix:

- d. Edit the **StartWebLogic.sh** file located in **weblogic_home/user_projects/domains/your_domain/bin/** directory.
- e. Add **<IDM_HOME>/server/ThirdParty/p6ws-jaxws-client.jar** as part of the **CLASSPATH**.
For example:
SAVE_CLASSPATH="<IDM_HOME>/server/ThirdParty/p6ws-jaxws-client.jar:\${CLASSPATH}"
where <IDM_HOME> is your IDM home directory (for example, test/Middleware/Oracle_IDM1)
- f. Copy the **p6ws-jaxws-client.jar** to the **weblogic_home/user_projects/OIM_domain/lib** directory.

11) Set the **XEL_HOME** variable in the **setenv** file:

In Windows:

- a. Edit the **setenv.bat** file located in **<IDM_HOME>\server\bin**.
- b. Set the path of the **XEL_HOME** variable to the absolute path of **<IDM_Home>\server**.
For example, if your **IDM_Home** is the **C:\oracle\Middleware\Oracle_IDM1**, then your path will look as follows:
set XEL_HOME=C:\oracle\Middleware\Oracle_IDM1\server

In Unix:

- c. Edit the **setenv.sh** file located in **<IDM_HOME>/server/bin/**.
- d. Set the path of the **XEL_HOME** variable to the absolute path of **<IDM_Home>/server**.
For example, if your **IDM_Home** is the **test/Middleware/Oracle_IDM1**, then your path will look as follows:
XEL_HOME="test/Middleware/Oracle_IDM1/server"

12) Restart the OIM WebLogic Server.

Configuring OIM 11g

Complete these steps before you begin connecting OIM 11g and P6.

- 1) Login to the OIM sysadmin console as an administrative user.
For example:
`http://OIM_Host:14000/sysadmin`
- 2) In the **Configuration** section, click **Lookup**.
- 3) Click **Search** and scroll to find **Lookup.USR_PROCESS_TRIGGERS**.
- 4) Select **Lookup.USR_PROCESS_TRIGGERS**.
- 5) Change the Meaning for two codes:
 - a. Click the **Edit** button.
 - b. Locate **USR_FIRST_NAME**.
 - c. In the **Meaning** column, enter **Change Personal Name**.
 - d. Locate **USR_LAST_NAME**.
 - e. In the **Meaning** column, enter **Change Personal Name**.
- 6) Create a new code and meaning:
 - a. Click the **Create** button.
 - b. In the **Meaning** column, enter **Change Email**.
 - c. In the **Code** column, enter **USR_EMAIL**.
- 7) Click **Save** and click **OK** to close the dialog box.

Configuring the OIM Application to Work with P6

Follow the steps below to configure OIM and the other applications needed to use OIM:

- 1) Login to the OIM sysadmin console as an administrative user.
For example:
`http://OIM_Host:14000/sysadmin`
- 2) Under the **System Management** section, choose **Import**.
- 3) In the **Deployment Manager - Import** dialog box:
 - a. Browse to the **PrimaveraP6EPPMProvOIM11gR2.xml** file and select it.
 - b. Select **Add File**.
 - c. Enter the P6 EPPM Web Services parameters.
 - d. Select **View selections**.

Note: If a red X displays next to the **UD_PM_USER** parameter, a user already attempted to import or export that UD_PM_USR version. Right-click **UD_PM_USR** and select **Remove**.

- e. Select **Import** to complete the process.
- 4) In the **Configuration** section, click **IT Resource**.
- 5) Search for **Primavera EPPM Resource** and verify the Primavera Resource information you imported is correct.
- 6) In the **Configuration** section, click **Application Instances** then click **Create**.

- a. Enter your information in the **Fill Name** and **Display Name** fields.
- b. In **Resource Object** field, choose **Primavera P6 EPPM User**.
- c. In **IT Resource Instance** field, choose **Primavera P6 EPPM IT Resource**.
- d. Click **Save**.

Note: In OIM11gR2, you can provision users through **Application Instances**.

Provisioning Users for OIM

Once you have configured OIM and P6, you will need to provision users in OIM. Provisioning users will ensure you can manage (create, delete, modify) user's profiles through both OIM and P6. For more information on provisioning, see the documentation included with OIM.

Provisioning Users for P6

To provision users from OIM for P6:

- 1) Launch OIM Identity Self Service Console.
For example:
`http://OIM_Host:14000/oim`
- 2) Navigate to **Users**.
- 3) Create a new user.
- 4) In the **Accounts** tab, click **Request Accounts**.
- 5) In the **Catalog**, select the **Application Instance** and click **Add to Cart**.
- 6) Click **Checkout**.
- 7) Click **Submit**.

Modifying or Deleting OIM Users P6 Privileges

To modify or delete an OIM user's access to P6, follow the steps below.

To modify an account:

- 1) In **User Details** page:
 - a. Click **Modify User**.
 - b. Update the first name, last name, and email address.
 - c. Click **Submit**.

To delete an account:

- 1) In **User Details** page:
 - a. Go to the **Accounts** tab.
 - b. Click **Modify Accounts**.
 - c. Click **Submit**.
- 2) Click **Remove Accounts**.

3) Click **Submit** to revoke the user from P6.

Refer OIM11gR2 documentation for more information on creating, modifying, and removing users.

For More Information

Where to Get Documentation

Complete documentation libraries for P6 EPPM releases are available on the Oracle Technology Network (OTN) at:

<http://www.oracle.com/technetwork/documentation/primavera-093289.html>

From this location you can either view libraries online or download them to have local copies. We recommend viewing them from OTN to ensure you always access the latest versions, including critical corrections and enhancements.

P6 EPPM is configured to access its help systems on OTN. However, you can also install local versions when you install the software.

The documentation assumes a standard setup of the product, with full access rights to all features and functions.

The following table describes the core documents available for P6 EPPM and lists the recommended readers by role. P6 EPPM roles are described in the *Planning Your P6 EPPM Implementation* guide.

Title	Description
<i>What's New in P6 EPPM</i>	Highlights the new and enhanced features included in this release. You can also use the <i>P6 EPPM Cumulative Feature Overview Tool</i> to identify the features that have been added since a specific release level. All users should read this guide.
<i>Planning Your P6 EPPM Implementation</i>	Explains planning your implementation and provides an installation process overview, frequently asked questions, client and server requirements, and security information. The P6 EPPM network administrator/database administrator and P6 administrator should read this guide.
<i>P6 EPPM Installation and Configuration Guide</i>	Explains how to install and configure P6 EPPM using the P6 EPPM Installation and Configuration wizards. The P6 EPPM network administrator/database administrator and P6 administrator should read this guide.

Title	Description
<i>P6 EPPM Installation and Manual Configuration Guide</i>	<p>Explains how to install and configure the P6 EPPM using the P6 EPPM Installation wizards, and how to manually configure individual components.</p> <p>The P6 EPPM network administrator/database administrator and P6 administrator should read this guide.</p>
<i>P6 EPPM Post Installation Administrator's Guide</i>	<p>Describes how to get started using P6 EPPM applications after you have installed and configured them. Complete the tasks in this guide before letting your users work with these applications. These tasks include information about configuring your users and security settings and privileges, configuring your Primavera P6 Administrator settings, and finalizing your P6 Integration API and P6 EPPM Web Services settings.</p> <p>The P6 EPPM network administrator/database administrator and P6 administrator should read this guide.</p>
<i>Tested Configurations</i>	<p>Lists the configurations that have been tested and verified to work with P6 EPPM.</p> <p>The network administrator/database administrator and P6 EPPM administrator should read this document.</p>
<i>P6 User's Guide</i>	<p>Explains how to plan, set up, and manage projects in a multiuser environment. If you are new to P6, start with this guide to learn how to use the software effectively to plan and manage projects. When you need more detail, refer to the P6 Help.</p> <p>The program manager, project manager, resource/cost manager, team leader, and all P6 users should read this guide.</p>
<i>P6 Help</i>	<p>Explains how to use P6 to administer, plan, set up, and manage projects, portfolios, workflows, timesheets, documents, and reports in a multiuser environment. Describes how to analyze performance and ROI, and analyze budgets. If you are new to P6, use this Help to learn how to use the software effectively.</p> <p>The operations executive, P6 EPPM and P6 administrator, program manager, project manager, resource/cost manager, team leader, and all users should read this Help.</p>
<i>P6 Data Dictionary</i>	<p>Defines fields used in P6.</p> <p>All P6 users should refer to this guide if they need a field definition.</p>

Title	Description
<i>P6 Team Member Web Help</i>	Describes how to use P6 Team Member Web to provide status on activities. P6 Team Member Web users should read this Help.
<i>P6 EPPM Web Services Programmer's Guide</i>	Describes how to invoke, use, and troubleshoot the available services and operations within supported environments. When you need specific information about the services and operations available, refer to the P6 EPPM Web Services Reference Manual. Anyone who wants to develop applications that interact with P6 should read this guide.
<i>P6 EPPM Web Services Reference Manual</i>	Describes all services and operations available in P6 EPPM Web Services. Anyone who wants to develop applications that interact with P6 should read this guide.
<i>P3 to P6 EPPM Migration Guide</i>	Provides best practices for migrating your P3 data to P6 EPPM and details how P3 functionality maps to P6 EPPM functionality. All administrators should read this guide if your organization is moving from P3 to P6.

Distributing Information to the Team

You can copy the online documentation to a network drive for access by project participants. Team members can then view or print those portions that specifically relate to their roles in the organization.

Throughout this documentation, the Security Guidance icon  helps you to quickly identify security-related content to consider during the installation and configuration process.

Where to Get Training

To access comprehensive training for all Primavera products, go to:

<http://education.oracle.com>

Oracle Learning Library

The Oracle Learning Library (OLL) provides online learning content covering Primavera products. Content includes whitepapers, videos, tutorials, articles, demos, step-by-step instructions to accomplish specific tasks, and self-paced interactive learning modules.

To access the learning library's Primavera content, go to:

<http://www.oracle.com/oll/primavera>

Where to Get Support

If you have a question about using Oracle products that you or your network administrator cannot resolve with information in the documentation or help, visit <http://support.oracle.com/>. This page provides the latest information on contacting Oracle Global Customer Support, knowledge articles, and the support renewals process. For more information about working with Support, visit <https://support.oracle.com/epmos/faces/DocumentDisplay?id=888813.2> to view **Support Tools & Tips**.

The following knowledge articles are a good place to start your research because they link to the most frequently referenced articles about P6 EPPM

- ▶ Primavera Product Master Notes [ID 1489367.1]
- ▶ Master Note For Primavera P6 Common Application Questions Or Issues [ID 1292929.1]

P6 EPPM integrates with different Oracle applications; when you create a Service Request, be sure to open the request with the proper Support team. To ensure you reach the proper Support team, enter the correct product information when you create the Service Request. Each product has its own support line.

- ▶ Use the **Primavera P6 EPPM** support line when you are having installation, configuration, or connection issues related to P6 EPPM.
- ▶ Use one of the following support lines when you are having installation or configuration issues that do not relate to P6 EPPM.
 - ▶ Oracle WebLogic Server
 - ▶ Oracle Database Server
 - ▶ BI Publisher
 - ▶ BPM
 - ▶ Oracle Webcenter Content Core Capabilities (formerly Universal Content Management)
 - ▶ Oracle Enterprise Manager
 - ▶ Oracle Access Manager
 - ▶ Oracle AutoVue

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/us/support/contact-068555.html> or visit <http://www.oracle.com/us/corporate/accessibility/support/index.html> if you are hearing impaired.

Using Primavera's Support Resource Centers

Primavera's Support Resource Center provides links to important support and product information. Primavera's Product Information Centers (PICs) organize documents found on My Oracle Support (MOS), providing quick access to product and version specific information such as important knowledge documents, Release Value Propositions, and Oracle University training. PICs also offer documentation on Lifetime Management, from planning to installs, upgrades, and maintenance.

Visit <https://support.oracle.com/epmos/faces/DocumentDisplay?id=1486951.1> to access links to all of the current PICs.

PICs also provide access to:

- ▶ **Communities** which are moderated by Oracle providing a place for collaboration among industry peers to share best practices.
- ▶ **News** from our development and strategy groups.
- ▶ **Education** via a list of available Primavera product trainings through Oracle University. The Oracle Advisor Webcast program brings interactive expertise straight to the desktop using Oracle Web Conferencing technology. This capability brings you and Oracle experts together to access information about support services, products, technologies, best practices, and more.

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Oracle Primavera Connecting Oracle Identity Manager 11g to P6

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