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**PRIMAVERA**

**Configuring Gateway for Single Sign On  
Release 14.2**

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# Overview

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This guide describes how to setup and enable single sign on (SSO) in Primavera Gateway.

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### Prerequisites

To setup and configure Single Sign On for Primavera Gateway, you will need to first configure Oracle Access Manager for SSO, before configuring Gateway for SSO.



# Configuring OAM for Single Sign On

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Oracle Access Manager (OAM) allows you to use single sign-on with Primavera Gateway.

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## Prerequisites

You must do the following before configuring OAM with Primavera Gateway:

- 1) Install Oracle WebLogic 12.1.2 and Fusion Middleware (fmw) infrastructure
- 2) Install Primavera Gateway.  
See the *Installation and Configuration Guide for Primavera Gateway*.
- 3) Install and configure Oracle HTTP Server (OHS) Webgate for Oracle Access Manager . See the OHS documentation for more information.
- 4) After installing Oracle HTTP Server 11g Webgate for Oracle Access Manager complete the following steps:
  - a. Change to the following directory under the Oracle Home for Webgate:  
On UNIX: **<Webgate\_Home>/webgate/ohs/tools/deployWebGate**  
On Windows: **<Webgate\_Home>\webgate\ohs\tools\deployWebGate**
  - b. On the command line, copy the required bits of agent from the Webgate\_Home directory to the Webgate Instance location as follows:  
On UNIX: **./deployWebgateInstance.sh -w <Webgate\_Instance\_Directory> -oh <Webgate\_Oracle\_Home>**  
On Windows: **deployWebgateInstance.bat -w <Webgate\_Instance\_Directory> -oh <Webgate\_Oracle\_Home>**  
Where:  
**<Webgate\_Oracle\_Home>** is the directory where you have installed Oracle HTTP Server Webgate and created as the Oracle Home for Webgate. For example,  
**<MW\_HOME>/Oracle\_OAMWebGate1**  
**<Webgate\_Instance\_Directory>** is the location of Webgate Instance Home, which is same as the Instance Home of Oracle HTTP Server. For example,  
**<MW\_HOME>/Oracle\_WT1/instances/instance1/config/OHS/ohs1**

**Note:** An instance home for Oracle HTTP Server is created after you configure Oracle HTTP Server. This configuration is performed after installing Oracle HTTP Server 11.1.1.2.0 or patching to Oracle HTTP Server 11.1.1.3.0.

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Example:

```
C:\Weblogic\WL121\Oracle_OAMWebGate1\webgate\ohs\tools\deployWebGate>deploy
WebgateInstance.bat -w
```

```
C:\Weblogic\WL1212\Oracle_WT1\instances\instance3\config\OHS\ohs1 -oh
```

```
C:\Weblogic\WL1212\Oracle_OAMWebGate1
```

- c. Run the following command to ensure that the LD\_LIBRARY\_PATH variable contains <Oracle\_Home\_for\_Oracle\_HTTP\_Server>/lib:

On UNIX (depending on the shell): **export**

```
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:<Oracle_Home_for_Oracle_HTTP_Server>/lib
```

On Windows: Set the <Webgate\_Installation\_Directory>\webgate\ohs\lib location and the <Oracle\_Home\_for\_Oracle\_HTTP\_Server>\bin location in the PATH environment variable. Add a semicolon (;) followed by this path at the end of the entry for the PATH environment variable.

Example: C:\Weblogic\WL1212G\Oracle\_OAMWebGate1\webgate\ohs\lib

- d. From your present working directory, move up one directory level:

On UNIX, move to: **<Webgate\_Home>/webgate/ohs/tools/setup/InstallTools**

On Windows, move to: **<Webgate\_Home>\webgate\ohs\tools>EditHttpConf**

For example,

```
C:\Weblogic\WL1212\Oracle_OAMWebGate1\webgate\ohs\tools>EditHttpConf>
```

- e. On the command line, run the following command to copy the apache\_webgate.template from the Webgate\_Home directory to the Webgate Instance location (renamed to webgate.conf) and update the httpd.conf file to add one line to include the name of webgate.conf:

On UNIX: **./EditHttpConf -w <Webgate\_Instance\_Directory> [-oh <Webgate\_Oracle\_Home>] [-o <output\_file>]**

On Windows: **EditHttpConf.exe -w <Webgate\_Instance\_Directory> [-oh <Webgate\_Oracle\_Home>] [-o <output\_file>]**

Where:

**<Webgate\_Oracle\_Home>** is the directory where you have installed Oracle HTTP Server Webgate for Oracle Access Manager and created as the Oracle Home for Webgate. For example, <MW\_HOME>/Oracle\_OAMWebGate1

**<Webgate\_Instance\_Directory>** is the location of Webgate Instance Home, which is same as the Instance Home of Oracle HTTP Server. For example, <MW\_HOME>/Oracle\_WT1/instances/instance1/config/OHS/ohs1

**<output\_file>** is the name of the temporary output file used by the tool such as Edithttpconf.log.



For example,

```
C:\Weblogic\WL1212\Oracle_OAMWebGate1\webgate\ohs\tools>EditHttpConf>EditHttpC
onf.exe -w C:\Weblogic\WL1212\Oracle_WT1\instances\instance1\config\OHS\ohs1
```

- 5) Configure the OHS proxy plug-in as follows:
  - a. On Oracle HTTP Server, navigate to  
**\$OHSDomain\config\fmwconfig\components\OHS\instances\<ohs\_folder\_name>**
  - b. Edit the **mod\_wl\_ohs.conf** file and add Primavera Gateway details as follows:
 

```
#Configuration For Primavera Gateway
<Location /pdi>
WebLogicHost <gateway server hostname>
WebLogicPort <gateway port number>
SetHandler weblogic-handler
</Location>
```
  - c. Save and close the file.
  - d. Restart OHS instance.
  - e. In the **WebLogic Plugin Enabled** drop-down, select **Yes**.
  - f. Select **Save**.
  - g. Select **Activate Changes** in the change center.
  - h. Access any of the following Primavera Gateway URL:  
**http://OHTTP\_hostname:port\_of\_OHTTP/pdi**
- 6) Install Oracle Access Manager. See Oracle Access Manager documentation for details.

## Registering Oracle Access Manager with Webgate

Register a Webgate with OAM and configure Global Logout URLs for Primavera Gateway as follows:

- 1) Log in to the **Oracle Access Manager Administration Console**.
- 2) On the **Welcome to Oracle Access Management** page, under **SSO Agents**, select **New OAM 11g Webgate**.
- 3) On the **Create OAM 11g WebGate** page:
  - a. In the **Name** field, enter the host name. For example, slc09tyu.us.oracle.com.  
 The host identifier will pre-populate with the **Name** field.
  - b. Retain the default for all other values.
  - c. Select **Apply**.
- 4) On the Webgate registration details page, enter the following under Logout URL:  
 /pdi/a/logout
- 5) Select **Apply** to save the configuration.
- 6) Copy **ObAccessClient.xml** and **cwallet.sso** to the  
**MW\_HOME/Oracle\_WT1/instances/<instancename>/config/OHS/<OHShome>/webgate/  
 config/** folder on the Webgate machine. Both files are provided by the OAM administrator.  
 Also refer to OAM documentation for more details.

### Configuring Oracle Access Manager for Primavera Gateway

To configure Oracle Access Manager with , you need to do the following:

- 1) Configure a data source in Access Manager to connect to the LDAP Server used with Primavera Gateway.
- 2) Create an Authentication Module to map to the LDAP data source.
- 3) Configure a Host Identifier to map to the Webgate host identifier.
- 4) Configure an Authentication Scheme to map to the authentication module.
- 5) Configure an application domain to protect the following resources:

/pdi

/pdi/

/pdi/\*\*

For more details on each task listed above, see the Oracle Access Management documentation.

# Configuring Primavera Gateway for Single Sign On

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## Installation Prerequisites

To configure Gateway for SSO,

- ▶ Install and configure OAM for SSO. For more information, see the section, **Configuring OAM for Single Sign On** (on page 7).
- ▶ In **OAM LDAP** store, create three user groups:
  - ▶ **PrimaveraGatewayAdmin**,
  - ▶ **PrimaveraGatewayDeveloper** and
  - ▶ **PrimaveraGatewayUser**,
- ▶ Create LDAP users for these groups.

## Create SSO Authentication Providers

Create SSO authentication providers as follows:

- 1) Log in to the WebLogic Administration Console for Primavera Gateway as an administrative user.
- 2) On the **Change Center** pane select **Lock & Edit**.
- 3) Select **Security Realms, myrealm, and Providers**.
- 4) Select **New** to enter information for a new authenticator provider.
  - a. In the **Name** field, enter a name for the authenticator provider. For example, **OAMIdentityAsserter**.
  - b. In the **Type** field, select **OAMIdentityAsserter**.
  - c. Edit the newly created Authenticator and set the **Control Flag** to **Required**.
  - d. Move the following Active Types to the **Chosen** column:
    - **OAM\_REMOTE\_USER**
    - **OAM\_IDENTITY\_ASSERTION**
    - **ObSSOCookie**

- e. Select **Save**.
- 5) Select **New** to enter information for a new authenticator provider.
  - a. In the **Name** field, enter a name for the provider. For example, PrimaveraAuthenticator.
  - b. In the **Type** field, select **OracleInternetDirectoryAuthenticator**
  - c. In the **Common** tab, select the newly created provider and set the **Control Flag** to **SUFFICIENT**, and select **Save**.
  - d. In the **Provider Specific** tab, enter the LDAP information from OAM LDAP store. Ensure you enter information in the following sections: **Connection, Users, Groups, Static Groups, Dynamic Groups (optional), and General**.
  - e. Select **Save**.
- 6) In the **Domain Structure** pane, select **Security Realms, myrealm, and Providers**.
- 7) Edit all other Authenticators and change the **Control Flag** to **SUFFICIENT**.
- 8) In the **Providers** screen, select the **Reorder Authentication Providers** button and reorder the providers in the following sequence:
  - a. **OAMIdentityAsserter**
  - b. **PrimaveraAuthenticator**
  - c. **DefaultAuthenticator**
  - d. **DefaultIdentityAsserter**
- 9) Select **OK** to save your changes
- 10) In the **Change Center** pane, select **Activate Changes**.
- 11) Log out of the WebLogic Administration Console.

### Create Custom Roles for Gateway Deployment

Create the three custom roles for Gateway, **PrimaveraGatewayAdmin**, **PrimaveraGatewayDeveloper**, and **PrimaveraGatewayUser** with Group conditions set as follows:

- 1) Log in to the WebLogic Administration console and select Gateway deployment, **pdi**.
- 2) On the **Settings for pdi** page, screen, select the **Security** tab.
- 3) On the **Roles** tab, select **New** to create new custom roles as follows:
  - a. In the **Name** field, enter a name for custom role that will match the group name for targeted users.
  - b. Select **OK**.
  - c. Select the new role, **Add Condition**, and choose **Group** as the condition to specify the group name.
  - d. Select **Save**.

### Configuring the Logout URL

To configure the Logout URL:

- 1) Log in to Weblogic Enterprise Manager.  
**http://<GatewayServer\_hostname>:<weblogic port>/em\**

- 2) Select **Weblogic Domain, Security** and **Security Provider Configuration**.
- 3) Select **Configure** for the **Single Sign On Provider** option.
- 4) In the **Logout URL** field, enter the Oracle Access Manager(OAM) global logout url:  
**http://<OAM server hostname:14100/oam/server/logout>**
- 5) Select **OK** and restart the WebLogic admin server.

## Configuring Gateway in WebTier

To configure Gateway in WebTier:

- 1) Navigate to **<WL\_Middleware>/Oracle\_WT1/instances/instance1/config/OHS/<OHS home folder>**
- 2) Edit the **mod\_wl\_ohs.conf** file and add Gateway application details as follows:

```
<Location /pdi>
    WebLogicHost <Gateway server hostname>
    WebLogicPort <Gateway port number>
    SetHandler weblogic-handler
</Location>
```

For example:

```
<Location /pdi>
    WebLogicHost 10.176.111.209 (The IP address or a fully qualified machine
name)
    WebLogicPort 8201
    SetHandler weblogic-handler
</Location>
```

- 3) Save the file.
- 4) Restart the OHTTP webserver instance as follows:
  - a. Go to **<WL\_Middleware>/Oracle\_WT1/instances/instance1/bin** folder
  - b. Run `opmnctl.bat [startall, stopall, status]`
- 5) Restart Gateway and access Gateway url as:  
**http://<OHTTP hostname configured to OAM>:<port of OHTTP>/pdi**



# For More Information

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## Where to Get Documentation

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

<http://www.oracle.com/technetwork/documentation/default-1923957.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.

Primavera Gateway is configured to access its help system on OTN. However, you can also install a local version 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 Primavera Gateway and lists the recommended readers by role.

<b>Title</b>	<b>Description</b>
<i>Gateway Help</i>	Describes how to work with Primavera Gateway and provides information to help users accomplish tasks. All users should read the Help.
<i>Gateway Developer's Guide</i>	Provides information on how third-party systems such as enterprise resource management (ERP) and enterprise asset management (EAM) systems can create their own providers in order to integrate with Primavera products. Developers of third-party providers that integrate with Primavera products via Primavera Gateway should read this book.

<b>Title</b>	<b>Description</b>
<i>Gateway Customization Guide</i>	<p>Provides information on how to customize an existing third-party integration.</p> <p>Developers interested in customizing existing third-party providers that integrate with Primavera products via Primavera Gateway should read this book.</p>
<i>Gateway Provider Reference Guide</i>	<p>Provides a list of the business objects available for each supported provider.</p> <p>Developers of third-party providers that integrate with Primavera products via Primavera Gateway should read this book.</p>
<i>EBS Provider Reference Guide</i>	<p>Provides a list of the business objects available for the EBS provider.</p> <p>Developers of third-party providers that integrate with Primavera products via Primavera Gateway should read this book.</p>
<i>VCP Provider Reference Guide</i>	<p>Provides a list of the business objects available for the VCP provider.</p> <p>Developers of third-party providers that integrate with Primavera products via Primavera Gateway should read this book.</p>
<i>Manual Deployment Guide</i>	<p>Provides information on how to manually install and configure Primavera Gateway.</p> <p>The Primavera Gateway network administrator/database administrator and the administrator for the third-party or ERP system should read this guide.</p>
<i>Gateway Installation and Configuration Guide</i>	<p>Provides information on how to install and configure Primavera Gateway. Primavera Gateway is a product that facilitates integrations with Primavera products and third-party systems such as enterprise resource management (ERP) and enterprise asset management (EAM) systems.</p> <p>The Primavera Gateway network administrator/database administrator and the administrator for the third-party or ERP system should read this guide.</p>
<i>Gateway Upgrade Guide</i>	<p>Provides a sequence of procedures that must be completed to upgrade to a new version of Primavera Gateway.</p> <p>The Primavera Gateway network administrator/database administrator and the administrator for the third-party or ERP system should read this guide.</p>




<b>Title</b>	<b>Description</b>
<i>Gateway Performance and Sizing Guide</i>	<p>Provides hardware and software requirements for deploying Primavera Gateway.</p> <p>The Primavera Gateway network administrator/database administrator and the administrator for the third-party or ERP system should read this guide.</p>
<i>Gateway Security Guide</i>	<p>Provides guidelines on establishing a highly secure environment for all Primavera Gateway environments.</p> <p>The Primavera Gateway network administrator/database administrator and the administrator for the third-party or ERP system should read this guide.</p>
<i>Gateway API Programmer's Guide</i>	<p>Provides instructions on how to access and use Primavera Gateway REST APIs.</p> <p>The Primavera Gateway network administrator/database administrator and Primavera Gateway users having the Gateway Developer role should read this guide.</p>
<i>Connecting with Instantis EnterpriseTrack</i>	<p>Provides instructions on how to setup the integration environment for Oracle Instantis EnterpriseTrack in Primavera Gateway.</p> <p>The Primavera Gateway network administrator/database administrator and the administrator for the third-party system should read this guide.</p>
<i>Connecting Prime and P6 EPPM</i>	<p>Provides instructions on how to setup the integration environment between Oracle Primavera Prime and P6 Enterprise Project Portfolio Management in Primavera Gateway.</p> <p>The Primavera Gateway network administrator/database administrator and the administrator for the third-party system should read this guide.</p>
<i>Connecting Unifier and P6 Enterprise Project Portfolio Management</i>	<p>Provides instructions on how to setup the integration environment between Oracle Primavera Unifier and P6 Enterprise Project Portfolio Management in Primavera Gateway.</p> <p>The Primavera Gateway network administrator/database administrator and the administrator for the third-party system should read this guide.</p>
<i>Migrating P6 Master Data Between Distinct Environments</i>	<p>Provides instructions on how to setup the integration environment between distinct P6 deployments to transfer P6 data in Primavera Gateway.</p> <p>The Primavera Gateway network administrator/database administrator and the administrator should read this guide.</p>

Title	Description
<i>Connecting E-Business Suite and P6 EPPM</i>	Provides instructions on how to setup the integration environment between Oracle E-Business Suite and P6 Enterprise Project Portfolio Management in Primavera Gateway. The Primavera Gateway network administrator/database administrator and the administrator for the third-party system should read this guide.
<i>Connecting Value Chain Planning and P6 EPPM</i>	Provides instructions on how to setup the integration environment between Oracle Value Chain Planning and P6 Enterprise Project Portfolio Management in Primavera Gateway. The Primavera Gateway network administrator/database administrator and the administrator for the third-party system should read this guide.
<i>Configuring Gateway for Single Sign On</i>	Provides instructions on how to configure Oracle Access Manager (OAM) and then enable Single Sign On for Primavera Gateway. The Primavera Gateway network administrator/database administrator should read this guide.
<i>Gateway Licensing Information User Manual</i>	Lists licensing information of all third-party software that is used or associated with the Oracle software program.
<i>Tested Configurations</i>	Lists the configurations that have been tested and verified to work with Primavera Gateway. The Primavera Gateway network administrator/database administrator and the administrator for the third-party or ERP system should read this guide.

### Distributing Information to the Team

You can copy the online documentation to a network drive for access by project participants. Each team member can then view or print those portions that specifically relate to his or her role 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 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/goto/oll>

## 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, click <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.

### 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** are moderated by Oracle providing a place for collaboration among industry peers to share best practices.
- ▶ **News** from our development and strategy groups.
- ▶ **Education** contains 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.

For more information about working with Support, visit <https://support.oracle.com/epmos/faces/DocumentDisplay?id=888813.2>.

### Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

## Legal Notices

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Oracle Primavera Configuring Gateway for Single Sign On

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